The University of Maryland

DEPARTMENT OF CHEMISTRY

QUARTERLY

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Fertilizer Analyses

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FERTILIZER REGISTRATIONS, Pages 31-36

FERTILIZER LAW, Pages 37-40

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ADDRESS

DEPARTMENT OF CHEMISTRY

UNIVERSITY OF MARYLAND

COLLEGE PARK MARYLAND

ANALYSES OF

Fertilizers Sold in Maryland

BY THE

UNIVERSITY OF MARYLAND

DEPARTMENT OF CHEMISTRY

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The tables on the following pages are made up of the results of the Analysis of fertilizers from February, 1922 to July, 1922, inclusive.

The majority of the samples analyzed are obtained by our sampling agents, the samples being taken while the goods are in transit, on vessels, wharves, cars or stations, from farmers' wagons, barns, etc. It is impossible for us to analyze all samples we collect; duplicates are generally omitted.

When a sample has been sent in by a farmer, his name, or initials, will be found after the "place of sampling." If "place of sampling" is not given, the sample has been made up of two or more samples taken at different places.

Before sending samples of fertilizer for analysis, farmers should always send for blank forms and directions, stating the number of blanks wanted. One blank is required for each sample. No sample will be analyzed unless taken and sent as required by law.

The figures in the columns headed "Ammonia," "Potash" and "Phosphoric Acid," are percentages, or pounds per hundred. To get pounds per ton multiply the per cent by 20. The columns headed "Found" contain the results found by analysis; those headed "guaranteed" contain the essential parts of the guarantee as stamped on the bags.

The "Comparative Value Found" is calculated from the results of analysis as found in our laboratory; the "Comparative Value Guaranteed" is calculated from the manufacturers' guaranteed analysis as printed on the bags in each case using the following schedule:

SCHEDULE FOR CALCULATING COMPARATIVE VALUES

In Mixed Fertilizers:

For Nitrogen, calculated as Ammonia	25	cts. per lb.,	$5.00 per unit
For Potash (K_2O)	7½	cts. per lb.,	1.50 per unit
For Available Phosphoric Acid	5	cts. per lb.,	1.00 per unit
For insoluble Phosphoric Acid	1	ct. per lb.,	0.20 per unit

In Dissolved Rock:

Available Phosphoric Acid	5	cts. per lb.,	1.00 per unit
Insoluble Phosphoric Acid	1	ct. per lb.,	.0.20 per unit

In Tankage:

For Nitrogen, calculated as ammonia	25	cts. per lb.,	5.00 per unit
For Phosphoric Acid	3	cts. per lb.,	0.60 per unit

In Ground Bone:

For Nitrogen, calculated as ammonia	25	cts. per lb.,	5.00 per unit
For Total Phosphoric Acid	3	cts. per lb.,	0.60 per unit

Special attention is invited to the comparative values per unit in the above schedule. It is very much easier to make calculations on the unit basis. Thus if Dried Blood containing 10 per cent of Ammonia sells for $5.00 per unit, it means that the selling price is the per unit value multiplied by the per cent of Ammonia, or in this case $50.00 per ton. In the case of a "Complete Fertilizer" with the analysis 2-8-2, if Ammonia is worth $5.00 per unit, Available Phosphoric Acid $1.00 per unit and Potash $1.50 per unit the value per ton would be $10.00, plus $8.00, plus $3.00, giving a value of $21.00 per ton.

Consumers, of fertilizer should, as a rule, purchase the "High-Grade" goods, as the price per unit and the cost of bags, handling, etc., is less for the actual amount of fertilizer received than is the case if "Low-Grade" fertilizers are used. The latter are made by using large amounts of filler.

In the purchase of Acid Phosphate one should always demand 16 per cent goods or better. Acid Phosphate containing 18 per cent may sometimes be obtained. The consumers should be willing to pay more for the 18 per cent than for the 16 per cent goods. There is no excuse, whatever, for 10 per cent and 12 per cent Acid phosphate. It is made from the high grades by mixing in a make-weight or filler. Neither is there no excuse for Mixed Fertilizers containing less than 1 per cent of either Ammonia or Potash, if these are present. The Fertilizer Manufacturers' Association now recommends eliminating "Low-Grade" fertilizers from the market and never using less than 2 per cent of Ammonia in an ammoniated fertilizer, never less than 2 per cent of Potash in fertilizer containing Potash, and not less than 14 per cent of total plant food, counting the Ammonia, Phosphoric Acid and Potash together. If this can be done, it will mean a great saving to the farmers, in the handling of extra weight, bags, freight, hauling, etc. However, the success of such a movement will depend to a considerable extent on the attitude of the buyer. If he insists on the stuff that is cheaper per ton, without regard to the amount of actual plant food, it is probable that he will be accommodated.

The new fertilizer law, printed near the end of this bulletin, went into effect June first. However, as the greater number of registrations for the year were made before that time, it will not be practical to put it into full effect till Jan. 1, 1923, when all of the registrations will be under the new law.

The law requires that all the ingredients furnishing plant food shall be stated and that the amount of Ammonia, Available Phosphoric Acid and Potash from each source shall be stated. While the law does not require that this information be published it is now contemplated to print it in the bulletin, abbreviating as much as possible to reduce the size of the bulletin, thus saving unnecessary expense and enabling the bulletin to be issued sooner. Suggestions from those interested will be gladly received.

Two important changes in the branding of fertilizer bags is incorporated in the new law.

First, the "Grade," as "3–10–3" is to follow the brand name. This means of course, 3% Ammonia, 10% Available Phosphoric Acid and 3% of Potash.

Second, the amount of Ammonia soluble in water is to be stated, followed by the Total Ammonia. Ammonia in Nitrate of Soda and Sulfate of Ammonia is all soluble in water. That from Tankage, Fish, Blood and other forms of animal and vegetable matter is only partly soluble. In fertilizer analysis the term "Ammonia" is used to indicate the ammonia equivalent of the nitrogen content.

Examples of the proper branding of bags of fertilizer under the old and the new laws are as follows.

OLD BRANDING
167 lbs.
Wheat Fertilizer
Guarantee Analysis

Ammonia	3%
Available Phos. Acid	10%
Potash	3%

Manufactured by the
Doe Fertilizer Co.,
Baltimore, Md.

NEW BRANDING
167 lbs.
Wheat Fertilizer
Grade 3-8-3.
Guarantee Analysis

Soluble Ammonia	1%
Total Ammonia	3%
Available Phos. Acid	10%
Water Soluble Potash	3%
Chlorine, not over	5%

Manufactured by the
Doe Fertilizer Co.,
Baltimore, Md.

The absence of Chlorine in a potash fertilizer shows that there is no chloride (muriate) of potash, or other chlorides, present, and that the potash is from Sulfate, Carbonate or Nitrate of potash.

When the potash is from Muriate (chloride) the chlorine should be, approximately, equal to the amount of potash. If the potash is from Kainit the Chlorine will be about three times as much as the potash, due to the fact that kainit contains other chlorides, especially sodium chloride (common salt) and magnesium chloride. Chlorine is generally conceded to be undesirable in a tobacco fertilizer.

"PHOSPHOGERM"

The new fertilizer law provides that "Before any person or firm shall sell or offer for sale any pure or mixed Culture of Micro-Organism or other material to be used for promoting directly or indirectly the growth of higher plants, he or they shall secure a permit and shall file or register with the University of Maryland a statement under oath, specifying the composition of the substance, and the kind of Micro-Organisms contained therein which promotes the growth of higher plants.*.*.*."

"Phosphogerm," manufactured by the Phosphogerm Mfg. Corporation, New Bern, N. C., sample No. 44145 in the following table, is covered by this section. It is guaranteed to contain not less than ¼% of Ammonia, derived from prepared humus and a small amount from fish scrap; ¼% of Available Phosphoric Acid, from a small amount of raw bone; and not less than 1/10th% of Potash from hardwood ashes and, sometimes, kainit.

"In other words, we do not claim nor wish to claim any available plant food. The amount varies from time to time with materials." "BACTERIA: Legume Bacteria, Azotobacter, Sulphur Bacteria."

A part of the sample, No. 44145, was submitted to the Bacteriological Department of the University, the report being as follows:—"We have completed our bacteriological examination of the sample of 'Phosphogerm' and our findings are stated below. Phosphogerm cultured on meat infusion agar, developed colonies of bacteria as follows—

Fungi (mostly molds)	280,000 per gram
Decomposition bacteria, inert air and soil types and others	580,000 per gram
Phosphogerm cultured on nitrogen-free media—	
Legume bacteria and azotobacter	40,000 per gram
Fungi	270,000 per gram
Other types	170,000 per gram
Total	430,000 per gram

Summary: The sample of Phosphogerm contained relatively small numbers of legume bacteria, sulfur bacteria, and azotobacters. There were also present fungi and air and soil types. From a bacteriological standpoint, the Phosphogerm does not contain enough inoculum bacteria to make this substance commercially valuable to the farmer.

Very truly yours,

E. M. PICKENS,
Pathologist and Bacteriologist."

Quite an active campaign has been waged to sell the material and also to sell stock in the company.

The material has been sold for $40 per ton. It is largely peat, the nitrogen of which is of poor quality. Reports from a number of farmers who have tried the material are generally to the effect that not only has it not given good results but that it has frequently done positive injury.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA		POTASH, K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Acme Guano Co., Baltimore, Md.											
42238	Ammoniated Fish Guano, No. 1	Baltimore	**3.14**	3.00			**.95**		**7.90**	8.00	**$23.79**	$23.00
42215	Potato & Truck Compound	Baltimore	**4.74**	5.00	**5.04**	5.00	**.50**		**8.20**	8.00	**39.56**	40.50
44070	Special Tobacco	Baltimore	**4.37**	5.00	**3.04**	3.00	**.65**		**7.75**	7.00	**34.29**	36.50
42216	Sweet Potato	Baltimore	**1.71**	2.00	**3.24**	6.00	**.62**		**8.53**	6.00	**22.06**	25.00
	American Agricultural Chemical Co., New York.											
44054	Acid Phosphate 14%	Baltimore					**1.45**		**13.50**	14.00	**13.79**	14.00
44079	Acid Phosphate 16%	Baltimore					**1.40**		**15.70**	16.00	**15.98**	16.00
44039	Allerton Guano	Baltimore	**1.13**	1.00	**2.16**	2.00	**1.20**		**9.65**	9.00	**18.78**	17.00
42195	Basic Lime Phosphate, (L. Gr.)	Baltimore					**2.30**	1.00	**13.40**	13.00	**13.86**	13.20
42182	Big Crop Fish Fertilizer	Baltimore	**4.06**	4.00	**4.24**	4.00	**1.35**		**8.05**	8.00	**34.98**	34.00
44040	Big Crop Phosphate	Baltimore			**5.92**	5.00	**.70**		**8.45**	8.00	**17.47**	15.50
44106	Bull Head Potato Manure	Baltimore	**5.14**	5.00	**7.02**	7.00	**.80**		**6.50**	6.00	**42.89**	41.50
44016	Coon Brand Guano	Baltimore	**1.40**	1.00	**2.20**	2.00	**1.30**		**9.55**	9.00	**20.11**	17.00
42156	Corn & Tomato Guano	Baltimore	**1.19**	1.00	**2.40**	2.00	**.90**		**8.60**	8.00	**18.33**	16.00
44061	Diamond Potash Mixture	Baltimore	**2.27**	2.00	**10.04**	10.00	**1.25**		**8.05**	8.00	**34.71**	33.00
42332	Early Truck Grower	Baltimore	**5.10**	5.00	**5.24**	5.00	**1.35**		**7.45**	7.00	**41.08**	39.50
42196	Early Truck & Vegetable Grower	Baltimore	**4.13**	4.00	**5.40**	5.00	**1.30**		**8.50**	8.00	**37.51**	35.50
42208	Fine Ground Bone	Baltimore	**3.50**	3.00			***24.04**	***22.88**			**31.92**	28.73
44120	Fish Guano 1916	Baltimore	**1.08**	1.00	**2.04**	1.00	**1.55**		**8.30**	8.00	**17.07**	14.50
42386	5-8-0 Fertilizer	Baltimore	**4.59**	5.00			**1.70**		**8.25**	8.00	**31.54**	33.00
42209	4-8-4 Fertilizer	Baltimore	**4.13**	4.00	**4.28**	4.00	**1.00**		**8.40**	8.00	**35.67**	34.00
42165	Genuine German Kainit	Baltimore			**12.96**	12.40						
44080	Gold Eagle	Baltimore	**3.02**	3.00	**5.72**	6.00	**1.10**		**6.80**	6.00	**30.70**	30.00

42209	4-8-4 Fertilizer	Baltimore	4.13	4.00	4.28	4.00	1.00		8.40	8.00	35.67	34.00
42165	Genuine German Kainit	Baltimore			12.96	12.40						
44080	Gold Eagle	Baltimore	3.02	3.00	5.72	6.00	1.10		6.80	6.00	30.70	30.00
	American Agricultural Chemical Co., N. Y., (Cont.)											
42333	H. G. Potash Compound	Baltimore	2.13	2.00	10.08	10.00	1.10		8.35	8.00	$34.34	$33.00
42399	Josiah Copes H. G. Super Phos.	Rising Sun					.30		17.35	16.00	17.41	16.00
42197	Josiah Copes Potato, Corn & Tob.	Baltimore	2.02	2.00	4.04	4.00	1.15		8.75	8.00	25.14	24.00
42430	Josiah Copes Sol. Phos. & Potash	Rising Sun			2.04	2.00	1.30		10.35	10.00	13.67	13.00
42431	Josiah Copes Special Phosphate	Rising Sun	1.14	1.00	3.44	3.00	1.25		9.50	9.00	20.61	18.50
42432	Josiah Copes Try Me Fertilizer	Rising Sun	2.12	2.00	2.16	2.00	1.00		8.80	8.00	22.84	21.00
42433	Josiah Copes Wheat & Grass Spec	Rising Sun	1.11	1.00	1.48	1.00	1.30		8.75	8.00	16.78	14.50
42361	Matchless Potash Manure	Baltimore	2.10	2.00	2.04	2.00	1.15		8.65	8.00	22.44	21.00
42183	Muriate of Potash	Baltimore			52.96	48.00						
44017	Nitrate of Soda	Baltimore	18.24	18.23								
42334	Pathfinder 1920	Baltimore	1.45	1.00	3.02	3.00	1.43		9.02	9.00	21.09	18.50
42346	Peerless Vegetable & Gr. Grower	Baltimore	2.12	2.00	5.24	5.00	1.15		8.15	8.00	26.84	25.50
42160	Plant Bed Fertilizer	Baltimore	8.71	10.00			.90		6.05	5.00	49.78	55.00
44109	Potato & Truck Phosphate	Sharptown	3.74	4.00	6.04	6.00	1.20		8.25	8.00	36.25	37.00
44124	Pure Bone Meal	Baltimore	4.64	4.50			*20.20	*21.50			35.32	35.40
42362	Rival Fish Compound	Baltimore	2.08	2.00	4.08	4.00	1.40		8.03	8.00	24.83	24.00
44018	Sweepstakes Tobacco Fertilizer	Baltimore	3.12	3.00	3.04	3.00	.85		8.80	8.00	29.13	27.50
44041	Turner & Son Corn & To. Guano	Baltimore	1.02	1.00	2.12	2.00	1.30		8.85	8.00	17.39	16.00
42161	Vegetator	Baltimore	2.59	2.00	4.24	4.00	1.05		8.75	8.00	28.27	24.00
42276	Victory Phosphate & Potash	Baltimore			5.24	5.00	1.35		12.20	12.00	20.33	19.50
	A. A. C. Co. (Alexandria), Alexandria, Va.											
42210	Ammoniated Dissolved Bone	Baltimore	2.51	2.00	2.52	2.00	1.40		8.05	8.00	24.66	21.00
	A. A. C. Co. (Canton), Baltimore, Md.											
42300	Baker's Fish Guano	Sharptown	2.02	2.00	2.20	2.00	1.40		8.15	8.00	21.83	21.00
42363	Baker's Standard Guano	Baltimore	2.04	2.00	3.12	3.00	1.55		8.02	8.00	$23.21	$22.50
44019	Harrow Brand Crop Grower	Baltimore	1.11	1.00	1.12	1.00	1.25		8.65	8.00	16.13	14.50
42198	Resurgam Guano	Baltimore	1.44	1.00	4.04	4.00	1.05		8.35	8.00	21.82	19.00
42248	Special Compound	Baltimore	3.04	3.00	4.04	4.00	1.15		8.20	8.00	29.69	29.00
	A. A. C. Co. (Detrick), Baltimore, Md.											
42364	Corn & Oats Fertilizer	Baltimore	1.04	1.00	2.28	2.00	1.40		9.10	9.00	18.00	17.00
42162	Gold Basis	Baltimore	6.89	7.00	5.14	5.00	1.20		6.35	6.00	48.75	48.50
42157	Gold Eagle	Baltimore	3.02	3.00	6.04	6.00	1.65		6.60	6.00	31.09	30.00
42211	KKK Kangaroo Komplete Komp.	Baltimore	2.12	2.00	3.04	3.00	1.05		8.60	8.00	23.97	22.50
42185	Imperial Compound	Baltimore	1.02	1.00	2.04	2.00	1.25		8.60	8.00	17.01	16.00
42387	Quick Step Fertilizer	Baltimore	3.62	3.00	4.12	4.00	1.10		8.30	8.00	32.80	29.00

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA		POTASH, K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	A. A. C. Co. (Detrick), Baltimore,	**Md. (Cont.)**										
44042	Royal Crop Grower	Baltimore	**2.02**	2.00	**2.12**	2.00	**1.35**		**9.05**	8.00	**22.60**	21.00
42166	Special Trucker	Baltimore	**5.02**	5.00	**5.36**	5.00	**1.10**		**7.75**	7.00	**41.11**	39.50
44043	Standard Potash	Baltimore	**1.09**	1.00	**3.08**	3.00	**1.25**		**9.05**	9.00	**19.37**	18.50
44088	Tomato Guano	Betterton	**1.02**	1.00	**4.04**	4.00	**1.22**		**8.03**	8.00	**19.43**	19.00
	A. A. C. Co. (Farmer), Baltimore,	**Md.**										
44072	H. G. Super Phosphate	Baltimore					**1.60**		**15.85**	16.00	**16.17**	16.00
44073	Alkaline Phosphate	Baltimore			**5.03**	5.00	**1.00**		**8.45**	8.00	**16.20**	15.50
42365	Anne Arundel Trucker	Baltimore	**4.52**	5.00	**5.12**	5.00	**1.20**		**7.80**	7.00	**38.32**	39.50
44081	B. & P. Phosphate	Baltimore			**2.04**	2.00	**1.15**		**10.35**	10.00	**13.64**	13.00
44020	Clyde Brand 1916	Baltimore	**1.16**	1.00	**1.24**	1.00	**1.15**		**8.60**	8.00	**16.49**	14.50
42366	Diamond Brand Fertilizer	Baltimore	**1.04**	1.00	**2.04**	2.00	**1.25**		**8.55**	8.00	**17.06**	16.00
44062	Fish Mixture	Baltimore	**2.02**	2.00	**2.08**	2.00	**.90**		**8.65**	8.00	**22.05**	21.00
42301	Harvest Queen	Sharptown	**1.09**	1.00	**3.36**	3.00	**1.80**		**8.80**	9.00	**19.65**	18.50
42367	Potash Guano	Baltimore	**1.11**	1.00	**4.24**	4.00	**1.00**		**8.35**	8.00	**$20.46**	$19.00
44129	Standard Phosphate	Baltimore	**2.05**	2.00	**3.56**	4.00	**1.60**		**8.20**	8.00	**24.11**	24.00
42199	Tobacco Plant Bed Fertilizer	Baltimore	**9.25**	10.00	**2.56**	2.00	**.70**		**5.85**	5.00	**56.08**	58.00
	A. A. C. Co. (S. M. Hess & Bro.),	**Phila., Pa.**										
42285	Keystone Phosphate	Motters	**1.11**	1.00	**1.24**	1.00	**1.45**		**8.95**	8.00	**16.65**	14.50
42286	Processed Phos. Lime, (L. Gr.)	Motters					**2.60**	1.00	**13.20**	13.00	**13.72**	13.20
42212	Special H. G. Acid Phosphate	Baltimore					**1.10**		**16.30**	16.00	**16.52**	16.00
44134	Special Compound	Baltimore	**1.31**	1.00	**4.52**	4.00	**1.75**		**7.70**	8.00	**21.38**	19.00
42302	Special Potato Manure	Sharptown	**3.89**	4.00	**6.08**	6.00	**1.30**		**8.80**	8.00	**37.63**	37.00
42303	3-6-6 Fertilizer	Sharptown	**3.07**	3.00	**6.08**	6.00	**1.85**		**6.02**	6.00	**30.86**	30.00

42302	Special Potato Manure	Sharptown	3.89	4.00	6.08	6.00	1.30		8.80	8.00	37.63	37.00

42303	3-6-6 Fertilizer	Sharptown	3.07	3.00	6.08	6.00	1.85		6.02	6.00	30.86	30.00
44021	Wheat, Corn & Grass Manure	Baltimore	1.13	1.00	2.20	2.00	1.30		8.45	8.00	17.66	16.00
	A. A. C. Co (Lazaretto), Baltimore, Md.											
44044	Big Crop Grower	Baltimore	2.13	2.00	2.04	2.00	1.25		8.80	8.00	22.76	21.00
42369	Farmers Choice Brand	Baltimore	1.13	1.00	2.04	2.00	1.20		8.55	8.00	17.50	16.00
42277	Red Dog Guano	Laurel	2.05	2.00	4.04	4.00	.80		9.05	8.00	25.52	24.00
42213	Spec. Potato & Tom. Fertilizer	Baltimore	1.13	1.00	4.04	4.00	1.30		8.15	8.00	20.12	19.00
42304	Spec. Tobacco & Potato Fertilizer	Secretary	3.02	3.00	4.32	4.00	1.25		8.95	8.00	30.78	29.00
	A. A. C. Co. (Lister's), Newark, N. J.											
44002	Acid Phosphate H. G.	Baltimore					.70		17.15	16.00	17.29	16.00
42167	A. B. C. Fertilizer	Baltimore	2.01	2.00	2.20	2.00	1.15		12.50	12.00	26.08	25.00
44082	Big Four Fertilizer	Baltimore	2.06	2.00	5.56	5.00	1.25		8.05	8.00	26.94	25.50
42265	Big Crop Grower	Baltimore	2.05	2.00	4.68	4.00	1.55		8.25	8.00	25.78	24.00
42229	Corn & Potato Fertilizer	Baltimore	2.13	2.00	3.08	3.00	1.60		8.20	8.00	23.79	22.50
42186	Eastern Shore Truck Fertilizer	Baltimore	4.68	5.00	6.72	7.00	.85		7.05	6.00	40.70	41.50
42348	Fish Brand Fertilizer	Baltimore	1.11	1.00	3.06	3.00	1.20		9.40	9.00	$19.78	$18.50
42370	G. Brand	Baltimore	1.09	1.00	4.12	4.00	.95		8.45	8.00	20.27	19.00
42371	Golden Sheaf	Baltimore	1.14	1.00	1.12	1.00	1.15		8.25	8.00	15.86	14.50
42349	Harvest Queen Phosphate	Baltimore	1.02	1.00	3.07	3.00	1.15		9.45	9.00	19.39	18.50
42372	Pure Superphosphate	Baltimore	2.83	3.00	2.08	2.00	2.05		9.25	9.00	26.93	27.00
44055	Special 7% Potato Fertilizer	Baltimore	6.19	7.00	5.04	5.00	1.40		6.60	6.00	45.39	48.50
44063	Special Tobacco Fertilizer	Baltimore	2.03	2.00	3.32	3.00	1.30		8.02	8.00	23.41	22.50
44069	Special Vegetable Manure	Baltimore	3.29	4.00	3.24	3.00	1.30		8.35	8.00	29.92	32.50
42434	Stand. Pure Super Phos. of Lime	White Hall	3.05	3.00	2.03	2.00	1.15		9.40	9.00	27.93	27.00
44022	Success	Baltimore	2.02	2.00	2.04	2.00	1.30		8.90	8.00	22.32	21.00
42336	10% Potash Fertilizer	Baltimore	2.22	2.00	10.12	10.00	1.40		7.65	8.00	34.21	33.00
42350	Truck Manure	Baltimore	5.03	5.00	5.16	5.00	1.15		7.50	6.00	40.62	38.50
	A. A. C. Co. (Patapsco), Baltimore, Md.											
42298	Acid Phosphate H. G.	Emmitsburg					.75		16.70	16.00	16.85	16.00
42299	Blood Bone & Potash	Emmitsburg	1.01	1.00	1.20	1.00	1.35		8.85	8.00	15.97	14.50
42373	Guano	Baltimore	2.01	2.00	2.12	2.00	1.25		8.55	8.00	22.03	21.00
44089	Lime Phos.-Crow Brand (L. Gr.)	Betterton					1.65	1.00	12.15	13.00	12.48	13.20
44045	Tobacco & Potato Fertilizer	Baltimore	1.89	2.00	2.40	4.00	1.35		9.05	8.00	22.37	24.00
	A. A. C. Co. (Pollock), Baltimore, Md.											
42374	Ammoniated Fertilizer AAA	Baltimore	3.05	3.00			1.25		10.02	10.00	25.52	25.00
44083	Crop Invigorator	Baltimore	1.11	1.00	4.16	4.00	1.60		7.40	8.00	19.51	19.00
44023	Spec. Potato & Tobacco Fertilizer	Baltimore	2.04	2.00	4.20	4.00	1.80		7.55	8.00	24.41	24.00

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA		POTASH, K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	A. A. C. Co. (Pollock), Baltimore,	**Md. (Cont.)**										
44003	Special Wheat & Corn	Baltimore	1.08	1.00	2.12	2.00	1.70		8.50	8.00	17.42	16.00
	A. A. C. Co. (Slingluff), Baltimore,	**Md.**										
42154	10% Tobacco Plant Bed Fert.	Baltimore	9.51	10.00	2.24	2.00	.82		5.98	5.00	$57.05	$58.00
	A. A. C. Co. (Susquehanna), Balti	**more, Md.**										
44056	H. G. Phosphate	Baltimore					1.41		16.04	16.00	16.32	16.00
44084	Potato & Tobacco Phosphate	Baltimore	2.03	2.00	3.08	3.00	1.10		8.05	8.00	23.04	22.50
44046	XXV Phosphate	Baltimore	1.01	1.00	1.02	1.00	1.70		8.40	8.00	15.32	14.50
	A. A. C. Co. (Wheeler), Rutland,	**Vt.**										
42200	Complete Manure	Baltimore	5.15	5.00	5.48	5.00	1.00		7.40	7.00	41.57	39.50
44057	5% Potash Guano	Baltimore	4.27	5.00	4.76	5.00	1.05		7.50	7.00	36.20	39.50
42201	High Grade Trucker	Baltimore	6.37	7.00	5.08	5.00	1.40		6.45	6.00	46.20	48.50
	A. A. C. Co. (Woodridge), Baltimo	**re, Md.**										
44004	Acid Phosphate, H. G.	Baltimore					1.00		16.65	16.00	16.85	16.00
42230	American Potash Mixture	Baltimore			2.08	2.00	.85		10.60	10.00	13.89	13.00
42376	Champion Stag Phosphate	Baltimore	1.25	1.00	2.28	2.00	1.40		9.35	9.00	19.30	17.00
44100	Clover Blossom	Baltimore	1.13	1.00	1.68	2.00	1.15		8.50	8.00	16.90	16.00
44005	Farmers Favorite Comp. (L. Gr.)	Baltimore	1.09	1.00	1.32	1.00	1.15		8.55	7.00	16.21	13.50
42351	Fish Mixture No. 1 (Low Grade)	Baltimore	1.35	1.00	1.12	1.00	1.55		7.65	7.00	16.39	13.50
42352	Fish Mixture No. 2	Baltimore	1.88	2.00	2.08	2.00	1.10		8.45	8.00	21.19	21.00
42377	Liberty Bell Potash Mixture	Baltimore			3.04	3.00	1.25		12.35	12.00	17.16	16.50
44047	Old Fidelity Phosphate	Baltimore	2.70	2.00			1.55		8.05	10.00	21.86	20.00
42278	Sovereign Trucker	Baltimore	5.02	5.00	5.76	5.00	1.45		7.75	7.00	41.78	39.50
42168	Spec. Potato & Tobacco Fert.	Baltimore	2.49	2.00	2.24	2.00	1.05		10.15	10.00	26.17	23.00
44074	Triangle Brand	Baltimore	1.06	1.00	4.24	4.00	1.75		8.25	8.00	20.26	19.00

42168	Spec. Potato & Tobacco Fert.	Baltimore	2.49	2.00	2.24	2.00	1.05		10.15	10.00	26.17	23.00

44074	Triangle Brand	Baltimore	1.06	1.00	4.24	4.00	1.75		8.25	8.00	20.26	19.00
44138	Triumph Brand Phosphate	Baltimore	2.02	2.00	3.36	3.00	1.13		8.32	8.00	23.69	22.50
	A. A. C. Co. (Zell), Baltimore, Md.											
42279	Ammoniated Superphosphate	Laurel	2.42	2.00	2.76	2.00	1.45		8.35	8.00	$24.88	$21.00
42378	Electric Phosphate Fertilizer	Baltimore			2.24	2.00	.85		10.05	10.00	13.58	13.00
42280	Hustler Phosphate	Laurel	1.48	1.00	2.52	3.00	.85		9.45	9.00	20.80	18.50
42214	Special Compound	Baltimore	3.04	3.00	4.64	4.00	1.30		8.20	8.00	30.62	29.00
44048	Special Compound	Baltimore	1.95	2.00	2.03	2.00	1.30		9.02	8.00	22.08	21.00
44112	Truck Manure	Baltimore	2.15	2.00	3.16	3.00	.65		8.55	8.00	24.17	22.50
	American Fertilizing Co., Baltimore, Md.											
42337	Acid Phosphate 16%	Baltimore					.70		16.60	16.00	16.74	16.00
42421	Acid Phosphate 16%	Vienna (H. H. R.)					1.25		15.45	16.00	15.70	16.00
42353	Best Crop Formula	Baltimore	2.06	2.00	6.24	6.00	1.25		10.30	10.00	30.21	29.00
42281	Best Potato Formula	Baltimore	4.30	4.00	6.36	6.00	1.90		8.90	8.00	40.32	37.00
42388	Champion Grain Grower	Baltimore	1.26	1.00	4.08	4.00	1.10		8.20	8.00	20.84	19.00
42389	Eagle Crop Grower	Baltimore	2.13	2.00	2.24	2.00	1.05		8.25	8.00	22.47	21.00
42178	Early Truckers Special	Baltimore	4.69	5.00	5.04	5.00	.90	1.00	6.50	6.00	37.69	38.70
42305	Eastern Shore Potato Special	Sharptown	7.02	7.00	5.12	5.00	1.35	1.00	6.60	6.00	49.65	48.70
44101	Excelsior Guano	Baltimore	2.01	2.00	2.96	5.00	1.05		8.02	8.00	22.72	25.50
44110	Fish & Bone Compound	Secretary	1.93	2.00	3.40	3.00	1.60	1.00	7.80	8.00	22.87	22.70
44011	Formula for Wheat & Corn	Baltimore			5.16	5.00	1.00		10.30	10.00	18.24	17.50
42249	Golden Sweet Potato Grower	Baltimore	3.29	3.00	6.04	6.00	1.40	1.00	6.35	6.00	32.14	30.20
44049	Grain & Grass Grower	Baltimore	1.08	1.00	3.96	3.00	1.20		8.70	9.00	20.28	18.50
42250	Kainit	Baltimore			13.60	12.40						
42287	Phospho Tobacco (Low Grade)	Emmitsburg					1.45		13.95	13.00	14.24	13.00
42251	Prize Guano	Baltimore	2.15	2.00	11.12	10.00	.70		8.50	8.00	36.07	33.00
44149	7-6-5	Pocomoke	7.03	7.00	4.40	5.00	1.55		6.60	6.00	48.66	48.50
42288	Special Fish Guano	Emmitsburg	1.06	1.00			1.65	1.00	10.15	10.00	$15.78	$15.20
44111	Stable Manure Substitute	Baltimore	2.85	3.00	4.04	4.00	.90		7.95	7.00	28.44	28.00
	Armour Fertilizer Works, Baltimore, Md.											
42179	Big Crop Acid Phosphate	Baltimore					.60		16.50	16.00	16.62	16.00
44137	Big Crop Bone Mixture 2-9-3	Baltimore	2.08	2.00	3.80	3.00	1.75		9.20	9.00	25.65	23.50
44075	Big Crop 0-8-5	Baltimore			4.80	5.00	.30		7.90	8.00	15.16	15.50
42239	Big Crop 5-8-5	Baltimore	4.88	5.00	5.02	5.00	.95		8.50	8.00	40.62	40.50
42203	Big Crop 5-8-7	Baltimore	5.03	5.00	7.32	7.00	.95		8.75	8.00	45.07	43.50
42390	Big Crop 4-8-4	Baltimore	3.28	4.00	3.68	4.00	.40		8.80	8.00	30.80	34.00
42180	Big Crop 7-6-5	Baltimore	6.79	7.00	5.44	5.00	.70		6.50	6.00	48.75	48.50
42258	Big Crop 3-8-3	Baltimore	3.05	3.00	3.20	3.00	1.25		8.15	8.00	28.45	27.50

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							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Armour Fertilizer Works, Baltimo	**re, Md. (Cont.)**										
44085	Big Crop 10-5	Baltimore	.....	.....	**4.64**	5.00	**.25**	.....	**9.90**	10.00	**16.91**	17.50
44113	Big Crop 2-8-10	Baltimore	**2.10**	2.00	**10.32**	10.00	**1.25**	.....	**7.10**	8.00	**33.33**	33.00
42252	Big Crop 2-8-5	Baltimore	**2.03**	2.00	**5.20**	5.00	**.70**	.....	**8.10**	8.00	**26.19**	25.50
44086	Big Crop 2-10-4	Baltimore	**2.01**	2.00	**4.12**	4.00	**.45**	.....	**9.80**	10.00	**26.12**	26.00
42267	Big Crop 2-16-2	Baltimore	**2.13**	2.00	**2.32**	2.00	**.85**	.....	**17.05**	16.00	**31.35**	29.00
42354	Big Crop 12-5	Baltimore	.....	.....	**5.04**	5.00	**.25**	.....	**11.90**	12.00	**19.51**	19.50
42435	Big Crop 2-12-2	Fallston	**2.10**	2.00	**2.16**	2.00	**.50**	.....	**11.10**	12.00	**24.94**	25.00
42232	Big Crop Nitrate of Soda	Baltimore	**18.50**	18.00	.....	.....	.....	.....	.....	.....	.....	.....
42219	Crop Grower	Baltimore	**1.13**	1.00	**2.32**	2.00	**.45**	.....	**8.15**	8.00	**17.37**	16.00
44006	Farmer's Choice	Baltimore	**1.13**	1.00	**3.16**	3.00	**.70**	.....	**9.65**	9.00	**20.18**	18.50
42266	Grain Grower	Baltimore	**2.10**	2.00	**2.28**	2.00	**1.20**	.....	**8.45**	8.00	**22.61**	21.00
44007	Ground Animal Tankage	Baltimore	**8.07**	9.00	.....	.....	***6.88**	*6.87	.....	.....	**44.48**	49.12
42181	Kainit	Baltimore	.....	.....	**12.64**	12.00	.....	.....	.....	.....	.....	.....
42338	Phosphate & Potash No. 1	Baltimore	.....	.....	**2.03**	2.00	**.40**	.....	**10.10**	10.00	**$13.23**	$13.00
42379	Royal Ammoniated Fertilizer	Baltimore	**1.08**	1.00	**4.04**	4.00	**.55**	.....	**8.15**	8.00	**19.72**	19.00
42233	Wheat, Corn & Oats Spec (L. Gr)	Baltimore	**1.08**	1.00	**1.16**	1.00	**.35**	.....	**6.85**	7.00	**14.06**	13.50
44058	Tuscarora Brand Big Four	Baltimore	**2.02**	2.00	**4.84**	4.00	**.55**	.....	**7.80**	7.00	**25.27**	23.00
	Associated Chemical Co., Hagersto	**wn, Md.**										
42259	Fine Bone Meal	Baltimore	**2.82**	3.00	.....	.....	***23.45**	*23.00	.....	.....	**28.17**	28.80
	Baltimore Fertilizer Co., Baltimore,	**Md.**										
42436	Honest 16% Acid Phosphate	Bel Air	.....	.....	.....	.....	**.30**	1.00	**17.05**	16.00	**17.11**	16.20
42437	Honest Ammoniated Bone	Bel Air	**1.69**	2.00	**2.20**	2.00	**1.75**	1.00	**9.01**	8.00	**21.11**	21.20
42268	Honest 1-9-3	Baltimore	**1.31**	1.00	**3.04**	3.00	**1.40**	.....	**9.80**	9.00	**21.19**	18.50

42268	Honest 1-9-3	Baltimore	1.31	1.00	3.04	3.00	1.40		9.80	9.00	21.19	18.50

42355	Honest 2-8-4	Baltimore	2.70	2.00	4.05	4.00	1.20		8.02	8.00	27.84	24.00
42438	Honest 2-8-10	Bel Air	1.25	2.00	10.04	10.00	.70	1.00	10.20	8.00	31.65	33.20
42253	Honest Trucker	Baltimore	5.46	5.00	5.32	5.00	1.00		6.65	6.00	42.13	38.50
42448	Old Honesty (Low Grade)	Glyndon	.65	.50	2.32	2.00	1.30		8.70	8.00	15.69	13.50
	Baltimore Pulverizing Co., Baltimore, Md.											
44012	Acid Phosphate 16%	Baltimore					2.15		16.95	16.00	17.38	16.00
42260	Corn & Grain Grower	Baltimore			3.64	4.00	2.10		8.70	12.00	14.58	18.00
42269	Excelsior Fertilizer	Baltimore			2.04	2.00	1.35		11.02	12.00	14.35	15.00
44076	Market Garden Fertilizer	Baltimore	2.76	3.00	4.40	4.00	.90		8.30	8.00	28.88	29.00
42220	Pennimans Excelsior	Baltimore			2.64	2.00	1.30		10.80	12.00	15.02	15.00
44132	Practical Fertilizer	Baltimore	1.04	1.00	2.03	2.00	2.52		9.28	8.00	18.03	16.00
42221	Royal Compound	Baltimore	2.01	2.00	2.04	2.00	1.25		8.15	8.00	21.51	21.00
44148	7% Potato Guano	Baltimore	7.22	7.00	4.64	5.00	.80		6.05	6.00	$49.27	$48.50
42254	Special Mixture	Baltimore	3.87	4.00	5.48	6.00	.50		7.20	8.00	34.87	37.00
44136	Special Potato Mixture	Baltimore	1.71	2.00	3.24	3.00	1.10		7.50	7.00	21.13	21.50
42270	Spec. Spring & Fall Mix. (L. Gr.)	Baltimore			2.04	2.00	2.20		9.45	8.00	12.95	11.00
44114	Trucker's Choice	Baltimore	2.85	3.00	2.20	2.00	2.10		8.05	8.00	26.02	26.00
	Baugh & Sons Co., Baltimore, Md.											
42169	Acid Phosphate 16%	Baltimore					1.20		16.50	16.00	16.74	16.00
44014	Acid Phosphate 14%	Baltimore					1.35		14.85	14.00	15.12	14.00
42235	Animal Base & Potash Comp.	Baltimore	2.05	2.00	2.12	2.00	1.20		8.15	8.00	21.82	21.00
44071	Bone Meal 3 & 50	Baltimore	4.54	3.00			*20.45	*23.00			34.97	28.80
44133	Commercial Super Phosphate	Baltimore	2.02	2.00	10.05	10.00	1.10		7.90	8.00	33.30	33.00
42380	Complete Animal Base Fert.	Baltimore	2.25	2.00	5.12	5.00	.90		8.20	8.00	27.31	25.50
42236	Corn & Oats Fertilizer	Baltimore	2.08	2.00	2.28	2.00	1.20		12.85	12.00	26.91	25.00
42339	Durable Plant Food	Baltimore	1.64	1.00	3.02	3.00	1.30		8.85	8.00	21.84	17.50
42282	Economical Crop Producer	Baltimore	1.81	1.00	3.04	2.00	.95		7.25	8.00	21.05	16.00
42340	Excelsior Guano	Baltimore	1.23	1.00	3.82	4.00	1.77		8.13	8.00	20.36	19.00
44104	Fish Bone Guano	Baltimore	2.13	2.00	1.32	1.00	1.50		9.60	10.00	22.53	21.50
42170	Fish Bone & Potash	Baltimore	4.11	4.00	4.24	4.00	.75		8.35	8.00	35.41	34.00
42240	Fish Mixture	Baltimore	2.12	2.00	2.20	2.00	.85		8.10	8.50	22.17	21.50
42204	General Crop Grower	Baltimore	1.48	1.00	1.44	1.00	1.40		8.20	8.00	18.04	14.50
42306	Genuine German Kainit	Baltimore			13.36	12.40						
44107	Grand Rapid Guano	Secretary	3.02	3.00	3.04	3.00	1.00		8.10	8.00	27.96	27.50
42381	Ground Fish	Baltimore	9.59	10.00			*9.45	*5.00			$53.62	$53.00
42283	Ground Tankage	Baltimore	8.09	8.00			*11.80			4.00	47.53	44.00
42440	Half & Half Mixture	Forest Hill	1.66	1.50			5.08		12.02	12.00	21.34	19.50

*Total Phosphoric Acid.

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							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Baugh & Sons Co., Baltimore, Md., (Cont.)											
44064	H. G. Tankage	Baltimore	7.78	7.00			*11.40			4.00	45.74	39.00
42190	Muriate of Potash	Baltimore			51.36	48.00						
44008	Nitrate of Soda	Baltimore	18.54	18.50								
42172	Old Stand By Dis. Animal Bone	Baltimore	2.32	2.00			1.05		12.75	12.00	24.56	22.00
42191	Peruvian Guano Substitute	Baltimore	5.02	5.00	5.16	5.00	.80		6.20	6.00	39.20	38.50
42192	Potato & Truck Special	Baltimore	4.03	4.00	6.40	6.00	1.05		8.15	8.00	38.11	37.00
42193	Raw Bone Meal	Baltimore	4.68	4.50			*21.20	*21.50			36.12	35.40
42241	Six & Thirty Tankage	Sparrows Point	5.84	6.00			*13.90	*13.73			37.54	38.24
42158	7% Potato Guano	Baltimore	6.65	7.00	5.12	5.00	.60		6.90	6.00	47.95	48.50
42194	7% Potato Guano	Baltimore	7.02	7.00	5.20	5.00	.80		6.85	6.00	49.91	48.50
42308	Soluble Alkaline Super Phos.	Secretary			2.16	2.00	.75		10.45	10.00	13.84	13.00
42173	Special Potato Manure	Baltimore	2.44	2.00	5.04	5.00	1.10		8.60	8.00	28.58	25.58
42155	Special Tobacco Manure	Baltimore	4.21	4.00	4.16	4.00	.95		8.05	8.00	35.53	34.00
42255	Strawberry Top Dresser	Baltimore	4.50	5.00			1.40		9.50	8.00	32.28	33.00
44065	Sulphate of Ammonia	Baltimore	24.72	25.00								
42242	Tomato Compound	Baltimore	2.13	2.00	2.40	2.00	.85		8.25	8.50	22.67	21.50
42307	12 & 5 Phosphate & Potash Mix.	Rhodesdale			5.02	5.00	1.05		11.85	12.00	19.59	19.50
44066	White's Tomato Compound	Baltimore	2.03	2.00	2.04	2.00	1.00		7.90	8.00	21.31	21.00
42271	Yucatan Tobacco Guano	Baltimore	3.81	3.00	3.32	3.00	.90		8.10	8.00	32.31	27.50
	Bryant Fertilizer Co., Alexandria, Va.											
42356	Formula E.	Baltimore	2.01	2.00	2.52	2.00	1.40		8.10	8.00	$22.21	$21.00
44009	Queen Ammoniated Bone	Baltimore	1.06	1.00	1.24	1.00	1.40		7.45	8.00	14.89	14.50
42357	Victory Tobacco Fertilizer	Baltimore	2.63	3.00	3.36	3.00	1.35		8.20	8.00	26.66	27.50
	Herbert Bryant's Son, Alexandria, Va.											

42357	Victory Tobacco Fertilizer	Baltimore	2.63	3.00	3.36	3.00	1.35		8.20	8.00	26.66	27.50
	Herbert Bryant's Son, Alexandria,	**Va.**										
42396	Empress Ammoniated Dis. Bone	Washington Grove	1.02	1.00	1.04	1.00	.60		8.25	8.00	15.03	14.50
42397	Genuine Fish Bone & Potash	Washington Grove	1.77	2.00	2.40	2.00	.90		9.30	9.00	21.93	22.00
42398	Truck & Potato Compound	Silver Spring	3.07	3.00	5.76	5.00	.80		10.05	8.00	34.20	30.50
	Central Chemical Co., Hagerstown,	**Md.**										
42247	Gro-All Dissolved Phosphate	Baltimore					.85		16.25	16.00	16.42	16.00
44026	Gro-All Canners Special	Hagerstown	2.08	2.00	5.36	5.00	.60		8.25	8.00	26.81	25.50
42289	Gro-All Crown Jewel	Frederick	1.11	1.00	3.04	3.00	.55		10.65	9.00	20.87	18.50
42290	Gro-All Empire	Myersville	2.10	2.00	9.60	10.00	.45		9.15	8.00	34.14	33.00
42291	Gro-All Excelsior	Monrovia	2.03	2.00	4.28	4.00	.60		10.60	8.00	27.29	24.00
42292	Gro-All Golden Sheaf	Frederick	1.06	1.00	1.52	1.00	.50		9.40	8.00	17.08	14.50
42293	Gro-All Grain & Grass Grower	Frederick	2.01	2.00	2.04	2.00	.35		13.25	12.00	26.43	25.00
42225	Gro-All Kainit	Baltimore			16.48	14.00						
42226	Gro-All Nitrate of Soda	Baltimore	18.84	18.20								
42294	Gro-All Pioneer	Myersville			4.68	5.00	.95		9.50	8.00	16.71	15.50
44027	Gro-All Potato Special	Hagerstown	3.81	4.00	7.72	7.00	1.10		8.30	8.00	39.15	38.50
42295	Gro-All Potash Special	Myersville			5.05	5.00	.75		12.60	12.00	20.33	19.50
42296	Gro-All Raw Bone Meal	Monrovia	6.01	4.50			*19.35	*20.60			41.66	34.86
42297	Gro-All Valley Mixture	Frederick	2.05	2.00	2.40	2.00	.55		9.25	8.00	23.21	21.00
	Crisfield Fertilizer Co., Crisfield,	**Md.**										
42309	Ground Crab Scrap	Crisfield	4.78	4.26			*4.20	*2.58			26.42	22.85
42310	Ground Crab Fertilizer	Crisfield	2.93	4.26	2.72	2.84	*2.85	*2.58			20.44	27.11
	L. E. P. Dennis & Son, Crisfield,	**Md.**										
44090	Economy Fish Mixture	Crisfield	2.20	2.00	3.40	3.00	1.15		7.70	8.00	$24.03	$22.50
44091	No. 1 Fish & Potash Mixture	Crisfield	2.71	3.00	5.60	5.00	1.30		7.55	7.00	29.76	29.50
44092	Special Potato Fish Mixture	Westover	5.72	6.00	8.36	8.00	.45		7.95	6.00	49.18	48.00
	Dorchester Fertilizer & Lime Co.,	**Cambridge, Md.**										
44093	Alsatian Kainit	Cambridge			15.84	14.00						
42311	Fish Mixture	Cambridge	2.20	2.00	2.68	2.00	1.95		8.85	8.00	24.26	21.00
44094	Old Dorset	Cambridge	1.02	1.00	3.68	4.00	.90		8.20	8.00	19.00	19.00
42312	Our No. 2	Cambridge	1.86	2.00	2.64	2.00	1.65		9.10	8.00	22.69	21.00
42313	Pea Special	Cambridge	2.02	2.00	3.48	4.00	1.90		8.90	8.00	24.60	24.00
42314	Truckers Delight	Cambridge	5.29	7.00	6.36	5.00	3.40		7.20	6.00	43.87	48.50
42315	Truckers Surprise	Cambridge	3.24	4.00	4.68	4.00	2.40		8.02	8.00	31.72	34.00
	Dumont Fertilizer Co., Inc., Phil	**adelphia, Pa.**										
44119	4-8-5	Baltimore	4.13	4.00	5.28	5.00	.85		8.03	8.00	36.77	35.50

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA		POTASH, K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Dumont Fertilizer Co., Inc., Phila.	**Pa. (Cont.)**										
42205	7-6-5	Baltimore	**5.92**	7.00	**5.08**	5.00	**.55**		**7.60**	6.00	**44.93**	48.50
42206	3-8-3	Baltimore	**3.02**	3.00	**3.12**	3.00	**1.80**		**8.02**	8.00	**28.16**	27.50
42341	2-8-5	Baltimore	**2.01**	2.00	**4.56**	5.00	**.67**		**8.33**	8.00	**25.35**	25.50
42256	2-8-10	Baltimore	**2.08**	2.00	**10.02**	10.00	**1.80**		**8.30**	8.00	**34.09**	33.00
44050	2-8-2	Baltimore	**1.79**	2.00	**2.20**	2.00	**1.00**		**9.90**	8.00	**22.35**	21.00
42342	12-5	Baltimore			**5.24**	5.00	**.90**		**12.10**	12.00	**20.14**	19.50
	Edelen Bros., Baltimore, Md.											
42759	H. G. Tobacco Guano	Baltimore	**3.11**	3.00	**3.24**	3.00	**1.10**		**8.30**	8.00	**28.93**	27.50
44051	Special Tobacco Guano	Baltimore	**2.08**	2.00	**2.12**	2.00	**1.55**		**8.80**	8.00	**22.69**	21.00
44139	Wheat & Grain Mixture	Baltimore	**1.50**	1.00	**1.96**	1.00	**1.78**		**8.57**	8.00	**19.37**	14.50
	Farmers' Fertilizer & Feed Co., We	**stminster, Md.**										
44028	Acid Phosphate 16%	Westminster					**1.95**		**15.35**	16.00	**15.74**	16.00
44029	Carroll Phosphate (Low Grade)	Westminster	**.58**	.50	**2.04**	2.00	**1.15**		**8.95**	8.00	**15.14**	13.50
44030	No. 3 Phosphate	Westminster	**1.54**	1.50	**3.60**	3.00	**1.30**	1.00	**8.50**	8.00	**21.86**	20.20
44031	Potato Fertilizer	Westminster	**1.84**	2.00	**5.04**	5.00	**.45**		**8.85**	8.00	**25.70**	25.50
44032	XX Phosphate	Westminster	**1.04**	1.00	**3.24**	3.00	**.55**		**10.25**	9.00	**20.42**	18.50
	Farmers' & Planters Co., Salisbury,	**Md.**										
42316	Acid Phosphate H. G.	Salisbury					**1.50**		**16.40**	16.00	**$16.70**	$16.00
44095	Acid Phosphate (Low Grade)	Salisbury					**.95**		**13.50**	11.00	**13.69**	11.00
42317	Early Truck	Salisbury	**4.03**	4.00	**4.36**	4.00	**1.95**		**9.15**	8 00	**36.23**	34 00
42318	Fish Mixture	Salisbury	**2.13**	2.00	**2.92**	2.00	**1.80**		**8.70**	8.00	**24.09**	21.00
44096	Fish & Potash	Salisbury	**2.17**	2.00	**9.52**	10.00	**.65**		**10.60**	8.00	**35.86**	33.00
42319	General Crop Grower	Salisbury	**1.50**	1.00	**2.40**	2.00	**1.30**		**9.60**	10.00	**20.96**	18.00
44097	German Kainit	Salisbury			**12.96**	12.40						

42319	General Crop Grower	Salisbury	1.50	1.00	2.40	2.00	1.30		9.60	10.00	20.96	18.00
44097	German Kainit	Salisbury			12.96	12.40						
44098	Peerless (Low Grade)	Salisbury	.70	.50	2.04	2.00	.90		8.03	8.00	14.77	13.50
42320	Special Fish Mixture	Salisbury	2.19	2.00	5.08	5.00	1.65		9.65	8.00	28.55	25.50
42321	Sweet Potato Special	Salisbury	3.12	3.00	7.40	7.00	1.80		8.65	8.00	35.71	33.50
42322	Truckers Mixture	Salisbury	3.33	3.00	4.56	4.00	1.75		9.45	8.00	33.29	29.00
	F. Mehring Fertilizer Works, Inc.,	**Littlestown, Pa.**										
44033	Acid Phosphate 16%	Keymar					.20		16.60	16.00	16.64	16.00
44034	Big Four Crop Grower	Keymar	1.02	1.00	2.12	2.00	.70		9.65	9.00	18.07	17.00
44035	H. G. Potash Mixture	Keymar			8.16	8.00	.45		10.03	10.00	22.36	22.00
44036	Mammoth Truck Grower	Keymar	2.15	2.00	4.72	5.00	.45		9.15	8.00	27.07	25.50
	Griffith & Boyd Co., Baltimore, Md.											
42323	Acid Phosphate	Secretary					.80		16.02	16.00	16.18	16.00
42262	Accomac Trucker	Baltimore	4.44	5.00	5.24	5.00	1.00		6.60	6.00	36.86	38.50
42383	Farmers Potato Manure	Baltimore	1.54	1.00	6.02	6.00	.90		8.05	8.00	24.96	22.00
42441	Farmers Queen	White Hall	1.11	1.00	3.36	3.00	.30		9.65	9.00	20.30	18.50
42227	Fish Blood & Potash	Baltimore	1.66	1.75	2.32	2.00	1.00		7.90	7.00	19.88	18.75
42343	Fish & Blood Mixture (L. Gr.)	Baltimore	2.01	1.75			1.15		8.30	7.00	18.58	15.75
42174	Fish & Potash Guano	Baltimore	1.89	1.75	3.16	3.00	1.20		7.55	7.00	21.98	20.25
42237	General Crop Grower	Baltimore	2.25	2.00	1.84	2.00	.65		8.15	8.00	$22.29	$21.00
42344	Kainit	Baltimore			12.24	12.40						
44025	Muriate of Potash	Baltimore			49.44	50.00						
42228	Nitro Crop Feeder	Baltimore	6.96	8.00	2.64	2.00	1.00		5.55	4.00	44.51	47.00
44126	Peerless Fertilizer (Low Grade)	Baltimore	.85	.50	2.12	2.00	1.15		8.50	8.00	16.16	13.50
42384	Royal Potash Guano	Baltimore	1.40	1.00	4.04	4.00	1.55		9.30	8.00	22.67	19.00
42324	Special Crop Grower	Secretary	2.53	2.00	2.40	2.00	.85		8.05	8.00	24.47	21.00
42385	Special Fish Mixture	Baltimore	1.79	1.50			.75		10.95	10.00	20.05	17.50
42257	Special Formula	Baltimore	2.01	2.00	4.16	4.00	.35		9.75	10.00	26.11	26.00
44068	Special Grain Grower	Baltimore			2.08	2.00	1.05		10.02	10.00	13.35	13.00
44059	Special Guano	Baltimore	2.05	2.00	5.20	5.00	.80		8.10	8.00	26.31	25.50
44128	Spring Crop Grower	Baltimore	2.58	2.00	3.32	4.50	.95		6.75	6.50	24.82	23.25
42207	7% Potato Guano	Baltimore	7.02	7.00	5.04	5.00	.60		7.20	8.00	49.98	50.50
42243	Stable Manure Substitute	Baltimore	3.02	3.50	5.16	4.00	.75		5.50	5.25	28.49	28.75
44102	Tobacco & Vegetable Grower	Baltimore	2.06	3.00	4.56	3.00	.55		7.25	8.00	24.50	27.50
42263	XX Potash Manure	Baltimore			5.28	5.00	.75		11.20	10.00	19.27	17.50
	Griffith & Turner Co., Baltimore, Md.											
44146	Amm'd. Alkaline Plant Fd (L.G.)	Baltimore	1.11	1.00	1.12	1.50	.57		7.43	6.00	14.77	13.25

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA		POTASH, K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Griffith & Turner Co., Baltimore, Md., (Cont.)											
44142	Pulverized Sheep Manure	Baltimore	**1.57**	2.25	**3.04**	3.00	**.13**	.50	**.97**	.75	**13.41**	16.50
42244	Special Potato Guano	Baltimore	**1.11**	1.00	**4.28**	4.00	**1.10**		**8.40**	8.00	**20.59**	19.00
	Hampstead Fertilizer Co., Hampstead, Md.											
44037	Acid Phosphate 16%	Hampstead					**1.35**		**16.02**	16.00	**16.29**	16.00
	J. G. Harr, Baltimore, Md.											
42442	Fish & Potash Mixture	Cockeysville	**2.13**	2.00	**2.04**	2.00	**3.40**		**9.75**	8.00	**24.14**	21.00
	Horsey Roe & Co., Greensboro, Md.											
42325	Acid Phosphate 16%	Greensboro					**1.15**		**16.05**	16.00	**$16.28**	$16.00
42326	Corn Grower 0-8-7	Greensboro			**7.40**	7.00	**.60**		**8.30**	8.00	**19.52**	18.50
42327	Crop Grower 1-8-4	Greensboro	**1.01**	1.00	**4.04**	4.00	**1.20**		**9.30**	8.00	**20.65**	19.00
42328	Kainit	Greensboro			**15.28**	14.00						
42329	3-8-3	Greensboro	**3.28**	3.00	**3.72**	3.00	**2.00**		**8.20**	8.00	**30.58**	27.50
44123	2-8-5	Greensboro	**2.02**	2.00	**5.08**	5.00	**1.80**		**9.02**	8.00	**27.10**	25.50
42330	12-5	Greensboro			**5.40**	5.00	**.80**		**11.55**	12.00	**19.81**	19.50
*42103	12-5	Greensboro			**5.12**	5.00	**.72**		**12.33**	12.00	**20.15**	19.50
	Hubbard Fertilizer Co., Baltimore, Md.											
42393	Acid Phosphate 16%	Baltimore					**.90**		**16.40**	16.00	**16.58**	16.00
42272	Farmers IXL	Baltimore	**2.37**	2.00	**2.56**	2.00	**2.65**		**8.02**	8.00	**24.24**	21.00
42264	Fish Mixture	Baltimore	**1.11**	1.00	**1.36**	1.00	**2.35**		**9.45**	8.00	**17.51**	14.50
44077	Fish & Potash Mixture (L. Gr.)	Baltimore	**.68**	.50	**2.40**	2.00	**1.05**		**9.15**	8.00	**16.36**	13.50
42246	5-8-5 Fertilizer	Baltimore	**4.40**	5.00	**5.08**	5.00	**1.20**		**8.35**	8.00	**38.21**	40.50
42224	5% Royal Seal	Baltimore	**5.05**	5.00	**5.28**	5.00	**1.95**		**8.20**	6.00	**41.76**	38.50

42224	5% Royal Seal	Baltimore	5.05	5.00	5.28	5.00	1.95		8.20	6.00	41.76	38.50
44078	7% Royal Seal	Baltimore	7.03	7.00	4.48	5.00	1.80		7.15	6.00	49.38	48.50
44015	H. G. Potash Mixture	Baltimore			4.16	4.00	1.05		10.60	10.00	17.05	16.00
44010	Kainit	Baltimore			13.84	12.40						
42284	Jersey Trucker	Baltimore	2.06	2.00	9.28	10.00	2.20		8.90	8.00	33.56	33.00
44052	Money Maker Fertilizer	Baltimore	1.88	2.00	4.20	5.00	1.50		9.70	8.00	25.70	25.50
42273	Noxall Guano	Baltimore	3.70	4.00	4.64	4.00	2.40		8.60	8.00	34.54	34.00
42245	1-8-3	Baltimore	1.13	1.00	3.60	3.00	2.35		8.20	8.00	19.72	17.50
42394	1-8-2 Fertilizer	Baltimore	1.18	1.00	2.16	2.00	.95		8.75	8.00	18.08	16.00
42395	Oriental Guano	Baltimore	1.48	1.00			.65		11.55	10.00	19.08	15.00
42359	Special 2-8-10	Baltimore	2.10	2.00	10.08	10.00	.50		8.40	8.00	34.12	33.00
42417	6-8-8 Fertilizer	Wes'r. (H.L.McC.)	5.97	6.00	8.24	8.00	1.75		7.60	8.00	50.16	50.00
44105	Yellow Wrapper	Baltimore	3.02	3.00	2.44	3.00	2.40		9.35	8.00	28.59	27.50
	M. P. Hubbard Co., Inc., Baltimore, Md.											
42176	Big Crop 4-8-0	Baltimore	4.10	4.00			.45		9.35	8.00	29.94	28.00
44103	Celebrated Phosphate	Baltimore	2.03	2.00	2.16	2.00	.30		6.80	8.00	20.25	21.00
42175	Dissolved Phosphate	Baltimore					.95		16.20	16.00	16.39	16.00
44108	Maryland Special	Sharptown	5.19	5.00	4.32	5.00	.45		7.85	7.00	40.37	39.50
44147	Riosa Top Dressing	Baltimore	8.41	8.00	2.88	3.00					46.37	44.50
42159	7% Bermuda Guano	Baltimore	7.08	7.00	5.20	5.00	.90		6.05	6.00	49.43	48.50
44099	Special 2-8-10	Sharptown	2.12	2.00	9.52	10.00	.55		7.75	8.00	32.74	33.00
44060	Turner's Corn & Tomato Guano	Baltimore	1.13	1.00	2.15	2.00	.65		8.20	8.00	17.21	16.00
	Koller Fertilizer Co., Seitzland, Pa.											
42443	Acid Phosphate H. G.	Parkton					.60		16.70	16.00	16.82	16.00
42444	Ammoniated Phosphate	Parkton	1.11	1.00	1.80	1.00	1.65		9.75	8.00	18.33	14.50
42445	Potato Grower	Parkton	1.08	1.00	2.24	2.00	1.85		9.80	8.00	18.93	16.00
42446	Producer Phosphate	Parkton	2.05	2.00	4.36	4.00	1.40		9.90	8.00	26.97	24.00
42447	Special Phosphate	Parkton	1.11	1.00	4.08	4.00	1.45		10.75	8.00	22.71	19.00
	Lancaster Chemical Co., Lancaster, Pa.											
42947	Acid Phosphate Special	Perryville					.70	1.00	15.85	16.00	$15.99	$16.20
42948	Dissolved Animal Bone & Potash	Perryville	1.50	2.00	3.48	4.00	.70	1.00	9.45	10.00	22.31	26.20
42881	Economist Fertilizer	Rising Sun			3.12	2.00	1.45	.50	10.80	10.00	15.77	13.10
42949	Keystone Brand (Low Grade)	Perryville	1.02	1.00			1.10	1.00	8.10	7.00	13.42	12.20
42882	Success Brand	Rising Sun	1.18	1.00	4.12	4.00	.75	1.00	8.80	8.00	21.03	19.20
42883	Wheat Special	Rising Sun	2.04	2.00	2.36	2.00	.75	1.00	8.80	8.00	22.69	21.20
	Massey & Kilbourne, Chestertown, Md.											
42950	10-5 Super Phosphate	Chestertown			6.64	5.00	.75		9.40	10.00	19.51	17.50

*Republished from the February Bulletin to correct a misprint in "'Value found," of $10 too small.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA		POTASH, K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Massey & Kilbourne, Chestertown,	**Md., (Cont.)**										
42951	Trustworthy Super Phosphate	Chestertown	1.88	2.00	4.92	5.00	1.80	.....	8.45	8.00	25.59	25.50
	Maryland Milling & Supply Co.,	**Sykesville, Md.**										
42913	Acid Phosphate H. G.	Sykesville	.....	.....	.....	.....	.25	.....	16.70	16.00	16.75	16.00
42915	Phosphate & Potash	Sykesville	.....	.....	7.60	5.00	.30	.....	10.40	12.00	21.86	19.50
42916	Truckers Favorite	Sykesville	2.56	2.00	8.16	5.00	.20	.....	7.90	8.00	32.98	25.50
	Miller Fertilizer Co., Baltimore,	**Md.**										
42697	Acid Phosphate	Baltimore	.....	.....	.....	.....	.65	.50	16.15	16.00	16.28	16.10
42885	Ammoniated Dissolved Bone	Forest Hill	2.01	2.00	2.40	2.00	.65	.....	8.45	8.00	22.23	21.00
42797	Club Brand (Low Grade)	Graceham	.99	.50	2.04	2.00	1.35	.50	9.15	8.00	17.43	13.60
42758	5-7-5	Baltimore	4.91	5.00	5.12	5.00	1.10	.....	8.35	7.00	40.80	39.50
42852	Grain Grower	Woodsboro	1.26	1.00	4.24	4.00	1.35	.....	8.35	8.00	21.28	19.00
42738	Harvest Queen	Baltimore	1.55	1.00	3.48	3.00	1.20	.50	10.30	9.00	23.51	18.60
42694	H. G. Potato Fertilizer	Baltimore	7.04	7.00	5.08	5.00	.60	.50	6.70	6.00	49.64	48.60
42727	Kainit	Baltimore	.....	.....	12.03	12.00	.....	.....	.....	.....	.....	.....
42702	No. 1 Potato & Vegetable Grower	Baltimore	4.02	4.00	4.28	4.00	.73	.50	8.02	8.00	34.69	34.10
42703	Pimlico	Baltimore	2.10	2.00	10.28	10.00	.35	.50	8.55	8.00	$34.54	$33.10
42739	Potato & Vegetable Grower	Baltimore	2.04	2.00	3.02	3.00	1.40	.50	9.90	9.00	24.91	23.60
42728	Standard Phosphate	Baltimore	3.09	3.00	3.40	3.00	1.45	.50	9.20	8.00	30.04	27.60
42756	Truckers Association No. 1	Sparrows Point	4.37	4.25	7.36	6.25	3.15	.....	9.30	8.95	42.82	39.58
42757	Truckers Association No. 3	Colgate	6.01	6.00	5.72	5.00	2.90	.....	9.01	8.50	48.22	46.00
42853	2-8-5	Woodsboro	2.01	2.00	4.68	5.00	.75	.50	8.25	8.00	25.47	25.60
42720	Vegetable Compound	Baltimore	4.37	5.00	5.26	5.00	.75	.50	8.55	8.00	38.44	40.60
42798	Unexcelled	Graceham	2.12	2.00	2.36	2.00	1.95	.....	10.55	10.00	25.08	23.00
	J. B. Nichols & Son, Baltimore, Md.											
42698	Farmers Friend Fertilizer	Baltimore	4.14	4.00	4.16	4.00	1.95	.....	7.85	7.00	35.18	33.00

	J. B. Nichols & Son, Baltimore, Md.											
42698	Farmers Friend Fertilizer	Baltimore	4.14	4.00	4.16	4.00	1.95		7.85	7.00	35.18	33.00
	G. Ober & Sons Co., Baltimore, Md.											
42706	Acid Phosphate, H. G.	Baltimore					.40		16.50	16.00	16.58	16.00
42707	Acco Potash Potato Guano	Baltimore	5.04	5.00	5.28	5.00	.60		7.75	7.00	40.99	39.50
42786	Avondale Amm'd. Dis. Bone	Baltimore	2.25	2.00	1.64	1.00	.60		8.40	8.00	22.23	19.50
42735	Farmers Mixture	Baltimore	1.14	1.00	2.04	2.00	1.05		9.35	9.00	18.32	17.00
42868	Farmers Standard Fertilizer	Baltimore	1.31	2.00	2.24	2.00	1.08		9.62	9.00	19.75	22.00
42740	German Kainit	Baltimore			13.20	12.00						
42787	Golden Seal Tobacco Guano	Baltimore	2.76	3.00	1.84	1.00	.95		9.05	8.00	25.80	24.50
42906	Independent Mixture	Baltimore	1.11	1.00	2.40	1.00	.85		8.02	8.00	17.34	14.50
42854	Lime Phosphate (Low Grade)	Baltimore					1.64		13.36	13.00	13.69	13.00
42764	Nitrate of Soda	Baltimore	18.06	18.00								
42855	Pure Bone Meal	Baltimore	3.96	4.50			*20.70	*21.00			32.22	35.10
42897	Sol. Amm'd. Super Phos. of Lime	Baltimore	2.18	2.00	2.32	2.00	1.75		8.20	8.00	22.93	21.00
42726	Special Plant Food	Baltimore	2.08	2.00	5.64	5.00	1.20		9.80	9.00	28.90	26.50
42765	Stag Guano	Baltimore	1.09	1.00	4.48	4.00	.75		10.15	9.00	$22.47	$20.00
42869	Standard Potash Compound	Baltimore			5.68	5.00	.30		12.01	12.00	20.59	19.50
42699	Stand. 7% Southern Veget. Comp.	Baltimore	6.65	7.00	5.16	5.00	.90		6.75	6.00	47.92	48.50
42708	Starkey Truck Compound	Baltimore	4.15	4.00	5.72	5.00	.60		8.35	8.00	37.80	35.50
42742	Swan E Fish Guano	Baltimore	2.12	2.00	3.28	3.00	.68		9.72	9.00	25.38	23.50
42807	10% Superphosphate & Potash	Secretary			2.20	2.00	1.20		11.35	10.00	14.89	13.00
	Oyler & Spangler, Gettysburg, Pa.											
42793	16%	Emmitsburg					.90		17.50	16.00	17.68	16.00
42794	Crop Grower	Emmitsburg	1.35	1.00	3.12	3.00	.80		9.15	8.00	20.74	17.50
42795	Excelsior	Emmitsburg	2.05	2.00	4.02	4.00	1.95		8.20	8.00	24.87	24.00
42796	Special	Emmitsburg	2.34	2.00			1.55		11.15	11.00	23.16	21.00
	Patuxent Guano Co., Baltimore, Md.											
42695	Acid Phosphate, H. G.	Baltimore					.55		16.30	16.00	16.41	16.00
42874	Beaver Brand Guano	Baltimore	1.26	1.00	2.82	3.00	1.55		7.90	9.00	18.74	18.50
42907	Champion Fertilizer	Baltimore	1.67	2.00	5.04	5.00	1.50		8.25	8.00	24.46	25.50
42696	Early Trucker	Baltimore	4.47	5.00	5.12	5.00	1.80		7.05	7.00	37.44	39.50
42908	Kainit	Baltimore			15.04	12.40						
42971	Trucker Quick Growth	Baltimore	4.81	5.00	5.52	5.00	.87		7.78	7.00	40.28	39.50
	Peerless Fertilizer Co., Chestertown, Md.											
42952	16% Rock	Baltimore					.40		16.30	16.00	16.38	16.00
42808	American Standard Fertilizer	Chestertown	3.77	4.00	5.68	5.00	1.00		7.20	6.00	34.77	33.50
42809	Corn Fertilizer (Low Grade)	Chestertown			4.40	4.00	.70		7.40	7.00	14.14	13.00

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA		POTASH, K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Peerless Fertilizer Co., Chesterto	**wn, Md. (Cont.)**										
42811	Ford's Ideal (Low Grade)	Chestertown	.80	.50	3.32	3.00	.25		9.35	8.00	18.38	15.00
42812	Our Peerless Fertilizer	Chestertown	1.86	2.00	3.68	3.00	.50		8.40	8.00	23.32	22.50
42813	Sweet Potato Manure	Chestertown	2.02	2.00	6.04	6.00	.48		8.07	8.00	$27.33	$27.00
42814	Truckers Pride	Chestertown	6.76	7.00	5.24	5.00	.60		9.45	6.00	51.23	48.50
	Phosphogerm Manufacturing Corp.,	**New Bern, N. C.**										
44145	**Phos-pho-Germ	Annapolis	.92	.25	2.00	.10	5.60		1.95	.25	10.67	1.65
	Piedmont-Mt. Airy Guano Co., Bal	**timore, Md.**										
42407	Piedmt. Acid Phosphate 16%	Stockton					.35		15.50	16.00	15.57	16.00
42425	Piedmt. Acid Phosphate 16%	White Hall					1.30		16.15	16.00	16.41	16.00
42898	Piedmt. Ammoniated Fert.	Baltimore	1.02	1.00	2.32	3.00	1.00		11.35	9.00	20.13	18.50
42408	Piedmt. Dried Blood	Stockton	16.72	16.00								
42405	Piedmt. Dried Ground Fish	Stockton	9.53	10.00			*9.75				53.50	50.00
42976	Piedmt. Early Trucker	Baltimore	4.30	5.00	6.40	5.00	.85		6.55	6.00	37.82	38.50
42875	Piedmt. Farmers Favorite	Baltimore	.82	1.00	4.36	4.00	1.15		8.70	8.00	19.57	19.00
42927	Piedmt. Fish Mixture	Baltimore	2.57	2.00	3.92	2.00	.95		8.50	8.00	27.42	21.00
42700	Piedmt. Gold Rod	Baltimore	6.67	7.00	5.04	5.00	1.05		6.70	6.00	47.82	48.50
42412	Piedmt. Ground Fish	Havre de Grace	10.09	10.00								
42876	Piedmt. Harvest Queen	Baltimore	.85	1.00	2.16	2.00	1.45		10.65	8.00	18.43	16.00
42909	Pd. H. G. Amm'd. Phos. & Potash	Baltimore	3.02	3.00	4.08	3.00	1.90		7.55	8.00	29.15	27.50
42428	Piedmt. H. G. Vegetable Grower	White Hall	2.05	2.00	14.16	10.00	.70		7.10	8.00	38.73	33.00
42754	Piedmt. Ideal Wheat & Corn	Baltimore	2.49	2.00	3.28	2.00	.95	1.00	10.50	10.00	28.06	23.20
42910	Piedmont Kainit	Baltimore			10.72	12.00						

42910	Piedmont Kainit	Baltimore	2.49	2.00	3.28	2.00	.95	1.00	10.50	10.00	28.06	23.20
					10.72	12.00						

42410	Piedmt. Muriate of Potash	Stockton			52.32	50.00						
42414	Piedmt. Muriate of Potash	Havre de Grace			52.16	50.00						
42413	Piedmt. Nitrate of Soda	Havre de Grace	18.78	18.00								
42709	Piedmt. Nitrate of Soda	Baltimore	17.62	18.25								
42788	Piedmt. Perfection Guano	Baltimore	2.03	2.00	5.24	5.00	.90		9.20	8.00	$27.39	$25.50
42424	Piedmt. Perfection Guano	White Hall	1.74	2.00	4.03	5.00	1.20		9.20	8.00	24.19	25.50
42769	Piedmt. Plow Brand	Baltimore	2.08	2.00	2.16	2.00	1.27		9.43	8.00	23.32	21.00
42422	Piedmt. Plow Brand	White Hall	2.12	2.00	2.14	2.00	1.90		8.40	8.00	22.59	21.00
42902	Piedmt. Raw Bone Meal	Baltimore	4.39	4.50			*23.40	*20.50			35.99	34.80
42426	Piedmt. Special Potash Mix	White Hall			5.36	5.00	1.45		9.30	10.00	17.63	17.50
42967	Piedmont Standard	Baltimore	1.88	2.00	2.88	3.00	.78		8.97	8.00	22.85	22.50
42420	Piedmt. Sulphate of Ammonia	Northeast	24.24									
42406	Piedmt. Sulphate of Ammonia	Stockton	25.07	25.00								
42903	Piedmt. Sulphate of Potash	Baltimore			49.40	48.00						
42415	Piedmont Tankage	Havre de Grace	9.02	10.00			*9.25				50.65	50.00
42770	Piedmont 3-8-5	Baltimore	2.87	3.00	6.24	5.00	.97		8.93	8.00	32.83	30.50
42777	Piedmont 3-8-7	Baltimore	2.68	3.00	7.04	7.00	1.00		8.20	8.00	32.36	33.50
42705	Piedmt. Unexcelled Guano	Baltimore	4.16	4.00	4.40	4.00	1.05		8.10	8.00	35.71	34.00
42427	Piedmt. Unexcelled Guano	White Hall	3.24	4.00	4.02	4.00	1.30		8.25	8.00	30.74	34.00
	Ramsburg Fertilizer Co., Frederick, Md.											
42799	Ammoniated Bone Phosphate	Frederick	1.01	1.00	2.16	2.00	2.05		11.10	10.00	19.80	18.00
42800	Corn & Potato Fertilizer	Monrovia	1.13	1.00	3.36	4.00	1.95		10.90	8.00	21.98	19.00
42802	Old Virginia Compound	Frederick	1.01	1.00	3.60	4.00	1.95		10.25	8.00	21.09	19.00
42803	Queen (Low Grade)	Monrovia	.60	.50	1.28	1.00	2.40		10.85	10.00	16.25	14.00
42804	Super Phosphate	Monrovia					1.60		16.65	16.00	16.97	16.00
	Rasin-Monumental Co., Baltimore, Md.											
42729	Acid Phosphate 16%	Baltimore					1.50		17.40	16.00	17.70	16.00
42904	Best Grain & Grass Formula	Baltimore	2.02	2.00	3.28	4.00	1.80		10.40	10.00	$25.78	$26.00
42771	Capital Crop Compound	Baltimore	1.13	1.00	3.08	3.00	2.00	1.00	9.30	8.00	19.97	17.70
42721	Early Truckers Special	Baltimore	5.09	5.00	5.04	5.00	1.25	1.00	6.75	6.00	40.01	38.70
42928	Kainit	Baltimore			12.32	12.40						
42905	Nitrate of Soda	Baltimore	15.94	18.00								
42929	Phosphate & Potash	Baltimore			4.84	5.00	1.00		9.75	10.00	17.21	17.50
42930	Phospho Tobacco (Low Grade)	Baltimore					1.43		13.62	13.00	13.91	13.00
42864	Special Compound	Baltimore	1.18	1.00	3.84	3.00	1.95	1.00	8.50	8.00	20.55	17.70
42865	United Grain Grower	Baltimore	1.14	1.00	2.16	2.00	1.30	1.00	7.85	8.00	17.05	16.20
42772	Vegetable Special	Baltimore	2.10	2.00	10.24	10.00	1.55	1.00	8.15	8.00	34.32	33.20
42878	Wheat, Corn & Oat Mix. (L.Gr.)	Germantown	.80	.50	2.24	2.00	1.35	1.00	8.10	8.00	15.73	13.70

**See page 5.

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA		POTASH, K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Rasin-Monumental Co., Baltimore,	**Md. (Cont.)**										
42972	William Penn Crop Grower	Germantown	1.09	1.00	1.12	1.00	1.60		8.04	8.00	15.49	14.50
	Reindollar Co., Taneytown, Md.											
42918	Acid Phosphate 16%	Taneytown					.83		16.12	16.00	16.29	16.00
42919	Ammoniated Phosphate	Taneytown	1.11	1.00	5.28	5.00	1.35		13.60	12.00	27.34	24.50
42920	Rock & Potash	Taneytown			4.76	5.00	1.00		12.50	12.00	19.84	19.50
	W. E. Robinson & Co., Bel Air,	**(Md.)**										
42886	2-8-5	Vale	2.05	2.00	5.08	5.00	.85		8.02	8.00	26.06	25.50
42887	Vegetable & Grass Fertilizer	Vale	2.05	2.00	2.96	2.00	1.05		8.15	8.00	23.05	21.00
	F. S. Royster Guano Co., Baltim	**ore, Md.**										
42710	Acid Phosphate 16%	Baltimore					.58		16.22	16.00	16.34	16.00
42711	Arrow 7% Potato Guano	Baltimore	7.02	7.00	5.16	5.00	.65		6.35	6.00	49.32	48.50
42730	Banner Guano	Baltimore	1.84	2.00	11.20	10.00	1.25		8.60	8.00	34.85	33.00
42712	Bully Guano	Baltimore	2.10	2.00	5.04	5.00	1.00		8.50	8.00	26.76	25.50
42773	Cuckoo Guano	Baltimore	1.25	1.00	1.28	1.00	1.35		8.75	8.00	$17.19	$14.50
42713	Dreadnought Guano	Baltimore	2.03	2.00	2.08	2.00	1.70		8.02	8.00	21.63	21.00
42870	8-5 Phosphate & Potash	Baltimore			5.04	5.00	.58		8.47	8.00	16.15	15.50
42911	Fish Flesh & Fowl	Baltimore	1.69	2.00	3.03	3.00	1.38		8.02	8.00	21.30	22.50
42566	**Fish Flesh & Fowl	Rockville	2.13	2.00	3.12	3.00	1.58		8.02	8.00	23.67	22.50
42974	Kainit	Baltimore			16.32	12.00						
42871	Prime Fish Brand (Low Grade)	Baltimore	2.03	2.00			.73		8.07	8.00	18.37	18.00
42968	Pure Raw Bone Meal	Baltimore	5.29	4.50			*22.70	*21.50			40.07	35.40
42714	Ripper Potato Guano	Baltimore	4.81	5.00	5.04	5.00	1.35		7.25	7.00	39.13	39.50

42866	Scout Guano	Baltimore	1.79	2.00	7.03	7.00	1.55		8.10	8.00	27.91	28.50
42867	Seeding Down Guano	Baltimore	1.30	1.00	4.76	3.00	1.30		8.65	9.00	22.55	18.50
42941	Special Sweet Potato Guano	Baltimore	3.69	4.00	4.16	4.00	.45		8.60	8.00	33.38	34.00
42942	Special Sweet Potato Guano	Baltimore	2.95	3.00	3.04	3.00	1.72		8.02	8.00	27.67	27.50
42943	Special Sweet Potato Guano	Baltimore	2.53	2.00	5.20	5.00	1.90		7.02	7.00	27.85	24.50
42778	10-2 Phosphate & Potash	Baltimore			2.12	2.00	.75		10.20	10.00	13.53	13.00
42857	12-5 Phosphate & Potash	Baltimore			5.02	5.00	1.00		12.20	12.00	19.93	19.50
44152	Triumph Guano	Baltimore	3.02	3.00	3.31	3.00	1.27		8.03	8.00	28.35	27.50
42879	Vim Guano	Rockville	1.91	2.00	2.36	2.00	1.45		12.35	12.00	25.73	25.00
42938	Wonder Worker	Baltimore	1.25	1.00	3.04	3.00	1.18		8.57	8.00	19.62	17.50
	Scott Fertilizer Co., Elkton, Md.											
42815	Genuine German Kainit	Elkton			12.03	12.00						
42953	Paul's Special	Elkton	3.89	4.00	10.08	10.00	.90		8.35	8.00	43.10	43.00
42816	Penna. Potato Grower	Elkton	1.23	1.00	2.05	2.00	1.30		8.05	8.00	17.54	16.00
42817	Potato Grower	Elkton	2.05	2.00	5.48	6.00	.98		8.07	8.00	26.74	27.00
42818	Pure Ground Raw Bone	Elkton	5.03	4.50			*21.97	*21.96			$38.33	$35.68
42819	Soluble Phos. & Potash 10 & 5	Elkton			5.04	5.00	.78		10.57	10.00	18.29	17.50
42820	Soluble Phos. & Potash 12 & 2	Elkton			2.03	2.00	.68		12.72	12.00	15.91	15.00
42821	Special Grain Grower (L. Gr.)	Elkton	.80	.50	4.16	4.00	1.13		8.02	8.00	18.49	16.50
42449	Special 2-12-2	Port Deposit J.S.C	2.76	2.00	5.88	2.00	2.15		8.15	12.00	31.20	25.00
42822	Standard	Elkton	1.06	1.00	3.04	3.00	.78		9.12	9.00	19.14	18.50
42823	Sure Growth Compound	Elkton	4.08	4.00	7.02	7.00	1.03		7.52	7.00	38.66	37.50
42755	Sure Growth Superphosphate	Baltimore	2.12	2.00	2.04	2.00	.92		8.93	8.00	22.77	21.00
42824	Tip Top Soluble Phosphate	Elkton					.80		16.15	16.00	16.31	16.00
42825	Victory Brand	Elkton	2.10	2.00	3.36	3.00	.95		8.01	8.00	23.74	22.50
42826	Wheat & Grass (Low Grade)	Elkton	.78	.50	2.28	2.00	.95		7.90	8.00	15.41	13.50
	W. H. Streett & Co., Fallston, Md.											
42888	Acid Phosphate	Fallston					.68	.50	16.62	16.00	16.76	16.10
42889	Ammoniated Dissolved Bone	Fallston	1.52	1.50	1.20	1.00	1.40	.50	9.25	9.00	18.93	18.10
42890	H. G. Bone Phosphate	Fallston	2.02	2.00	4.12	4.00	1.90	.50	9.90	10.00	24.56	26.10
	Summers Fertilizer Co., Baltimore, Md.											
42805	All Crop Grower	Thurmont	2.51	2.00	5.03	5.00	2.05		8.45	8.00	28.96	25.50
42806	Dissolved Phosphate	Thurmont					2.04		16.06	16.00	16.47	16.00
42863	Grain Grower	Thurmont	1.01	1.00	1.28	1.00	2.15		8.15	8.00	15.55	14.50
	Superior Guano Co., Baltimore, Md.											
42954	Acid Phosphate 16%	Centreville					.95		16.05	16.00	16.24	16.00
42716	Buyers Mixture	Baltimore	4.04	4.00	4.40	4.00	1.48		8.02	8.00	35.12	34.00

*Total Phosphoric Acid.

**Republished from the February Bulletin to correct a misprint in "Value found" of $10 too small.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA		POTASH, K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Superior Guano Co., Baltimore, Md.	**(Cont.)**										
42939	Caroline Special	Baltimore	1.02	1.00	2.96	3.00	.50		9.70	9.00	19.34	18.50
42955	Crab Scrap	Centreville	5.29	6.00	.68	1.00	.45		3.40	3.00	30.96	34.50
42774	Fruit Special	Baltimore	1.76	2.00	6.00	5.00	.75		9.15	8.00	$27.10	$25.50
42973	Half & Half (Low Grade)	Centreville			1.52	1.25	3.15		5.35	8.00	8.26	9.88
42744	High Grade Potato	Baltimore	5.02	5.00	5.04	5.00	.40		9.75	7.00	42.49	39.50
42775	Potato Special	Baltimore	3.75	5.00	3.02	3.00	2.25		9.15	7.00	32.88	36.50
42956	Special Corn & Grass (L. Gr.)	Centreville			3.03	3.00	.35		7.95	7.00	12.57	11.50
42957	Special Mixture	Centreville	2.13	2.00	3.08	3.00	1.65		7.30	8.00	22.90	22.50
	Swift & Company, Baltimore, Md.											
42745	Acid Phosphate Fert. H. G.	Baltimore					1.75		16.02	16.00	16.37	16.00
42827	Bone Meal Fertilizer	Easton Landing	2.71	3.00			*27.40	*24.00			29.99	29.40
42722	Canning Crop Fertilizer	Baltimore	4.06	4.00	4.20	4.00	.50		8.02	8.00	34.72	34.00
42946	Champion Wheat & Corn Grower	Baltimore	1.89	2.00	2.04	2.00	.40		12.02	12.00	24.61	25.00
42761	Diamond B. Fertilizer	Baltimore	3.05	3.00	5.40	5.00	.45		8.75	8.00	32.19	30.50
42900	Diamond C. 2-8-4	Baltimore	2.01	2.00	3.76	4.00	.35		8.20	8.00	24.01	24.00
42723	Early Potato Grower	Baltimore	5.03	5.00	3.88	5.00	.95		8.02	8.00	39.18	40.50
42746	Farmers Favorite (L. Gr.)	Baltimore	.61	.25	.76	1.00	1.10		11.25	10.00	15.66	12.75
42779	4-8-4	Baltimore	3.79	4.00	3.80	4.00	.70		9.35	8.00	34.14	34.00
42747	Golden Grain Grower 2-8-5	Baltimore	2.08	2.00	5.12	5.00	.32		8.78	8.00	26.92	25.50
42780	Grain Fertilizer 1-8-2	Baltimore	1.04	1.00	2.02	2.00	.40		7.45	8.00	15.76	16.00
42975	Hummer 7-6-5	Baltimore	6.47	7.00	4.12	5.00	.35		7.50	6.00	46.10	48.50
42767	H. G. Potato Fertilizer 4-8-6	Baltimore	3.70	4.00	6.12	6.00	.47		9.38	8.00	37.15	37.00

42931	Kainit	Baltimore			12.32	12.40						

42931	Kainit	Baltimore			12.32	12.40							
42419	Kainit	Aberdeen (D.M.E)			12.40	12.40							
42731	New Jersey Special	Baltimore	4.02	4.00	7.84	7.00	.95		8.25	8.00	40.30	38.50
42828	New York State Onion Grower	Easton Pt.	1.11	1.00	7.02	8.00	.45		6.45	6.00	$22.62	$23.00
42736	Plant Bed Fertilizer 5-8-2	Baltimore	5.02	5.00	2.24	2.00	.70		8.02	8.00	36.62	36.00
42829	Red Steer 2-8-2	Easton Pt.	1.86	2.00	2.04	2.00	.75		8.25	8.00	20.76	21.00
42944	No. 2 H. G. Grain Grower	Baltimore	2.08	2.00	4.24	4.00	.45		9.60	10.00	26.45	26.00
42978	Reliable Grain Grower	Baltimore	1.26	1.00	1.84	1.00	.30		7.45	8.00	16.57	14.50
42945	Royal Tomato Grower	Baltimore	1.88	2.00	4.56	5.00	.35		6.90	7.00	23.21	24.50
42732	Southern Planters Favorite	Baltimore	2.88	3.00	3.04	3.00	.50		8.20	8.00	27.26	27.50
42748	Special "A" Fertilizer 3-8-0	Baltimore	3.11	3.00			.42		8.63	8.00	24.26	23.00
42830	Special Potato Fertilizer	Sharptown	2.01	2.00	10.02	10.00	.35		8.20	8.00	33.35	33.00
42933	Special Corn Grower 2-10-0	Baltimore	2.29	2.00			.40		10.10	10.00	21.63	20.00
42872	Special Wheat & Corn Grower	Baltimore	2.04	2.00	4.16	4.00	.35		9.55	10.00	26.06	26.00
42762	Standard Potato Fert. 2-8-3	Baltimore	2.13	2.00	3.40	3.00	.65		8.30	8.00	24.18	22.50
42781	Tankage	Baltimore	9.72	10.00			*8.70				53.82	50.00
42859	0-10-10	Baltimore			10.08	10.00	.90		9.50	10.00	24.80	25.00
42737	Top Dresser Formula No. 1	Baltimore	6.42	7.00			.70		8.80	8.00	41.04	43.00
42782	2-8-2	Baltimore	2.10	2.00	2.16	2.00	.75		8.02	8.00	21.91	21.00
42877	Virginia Tobacco Grower	Baltimore	2.86	3.00	3.05	3.00	.60		7.50	8.00	26.50	27.50
	Tanner Hide & Tallow Co., Hagerstown, Md.											
42921	Blood Bone & Meat	Hagerstown	5.80	5.00			*13.45				37.07	25.00
42922	Bone Phosphate	Hagerstown	1.76	2.00	1.40	2.00	3.83	4.00	12.17	8.00	23.84	21.80
	H. S. Taveau & Co., Baltimore, Md.											
42750	Blood Bone & Potash	Baltimore	3.07	3.00	2.36	2.00	1.45		9.85	8.00	29.03	26.00
42733	Fish Bone & Potash Mixture	Baltimore	2.03	2.00	3.16	3.00	1.87		8.43	8.00	23.69	22.50
42749	Florida Phosphate	Baltimore					1.30		14.30	14.00	14.56	14.00
42789	Pride of Maryland	Baltimore	1.09	1.00	1.04	1.00	1.35		10.35	10.00	$17.63	$16.50
42734	Strawberry Top Dressing	Baltimore	4.04	4.00	1.88	1.00	.82		6.18	5.00	29.36	26.50
42790	Wonder Potato & Tom. Manure	Baltimore	1.89	2.00	2.04	2.00	1.30		8.95	8.00	21.72	21.00
	Thomas & Co., Frederick, Md.											
42880	Harvest Queen	Gaithersburg	1.42	1.25	2.16	2.00	.93		10.42	10.00	20.95	19.25
	I. P. Thomas & Son Co., Philadelphia, Pa.											
42891	Acid Phosphate 16%	Colora					1.20		16.65	16.00	16.89	16.00
42783	Farmers Choice 2-12-2	Annapolis	2.35	2.00	3.16	2.00	1.60		11.70	12.00	28.51	25.00
42893	General Use Fertilizer 2-8-2	Colora	2.02	2.00	2.40	2.00	1.72		8.68	8.00	22.72	21.00
42894	Special Potato Fert. 2-8-10	Colora	20.4	2.00	10.28	10.00	1.28		8.52	8.00	34.40	33.00
42895	Superior Super Phosphate 1-8-1	Colora	1.48	1.00	1.56	1.00	1.35		9.50	8.00	19.51	14.50

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA		POTASH, K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	I. P. Thomas & Son Co., Phila.,	**Pa. (Cont.)**										
42784	Tip Top Super Phosphate 3-8-4	Annapolis	**3.28**	3.00	**4.88**	4.00	**1.65**		**9.05**	8.00	**33.10**	29.00
42896	Victor Potash Fertilizer 2-8-5	Colora	**2.05**	2.00	**5.92**	5.00	**1.15**		**8.90**	8.00	**28.26**	25.50
	Wm. B. Tilghman Co., Salisbury,	**Md.**										
42958	Acid Phosphate H. G.	Salisbury					**.90**		**14.05**	16.00	**14.23**	16.00
42831	Fish Bone Potash Mixture	Salisbury	**1.23**	1.00	**2.24**	2.00	**.45**		**10.25**	10.00	**19.85**	18.00
42959	H. G. Corn Fertilizer	Salisbury	**1.14**	1.00	**4.88**	5.00	**.48**		**10.07**	10.00	**23.19**	22.50
42832	H. G. Early Truck Guano	Salisbury	**5.38**	5.00	**5.24**	5.00	**1.28**		**8.47**	8.00	**43.49**	40.50
42834	H. G. Potato Fertilizer	Salisbury	**3.02**	3.00	**6.04**	6.00	**.75**		**6.40**	6.00	**30.71**	30.00
42833	H. G. Potash Mixture	Salisbury	**2.04**	2.00	**10.32**	10.00	**.73**		**8.02**	8.00	**33.85**	33.00
42835	Mixture "B"	Salisbury	**4.03**	4.00	**4.12**	4.00	**1.50**		**8.35**	8.00	**34.98**	34.00
42836	Special Fish for Sweet Potatoes	Fruitland	**2.13**	2.00	**5.32**	5.00	**1.38**		**7.52**	7.00	**26.43**	24.50
42837	Special 3-7-7 Mixture	Salisbury	**3.04**	3.00	**7.32**	7.00	**1.03**		**7.27**	7.00	**33.66**	32.50
42960	Special Top Dressing Mixture	Salisbury	**5.60**	6.00								
42838	Standard Fish Mixture	Salisbury	**2.25**	2.00	**2.08**	2.00	**.50**		**10.25**	10.00	**24.72**	23.00
	United States Guano Co., Baltimo	**re, Md.**										
42715	Acid Phosphate H. G.	Baltimore					**.40**		**17.35**	16.00	**$17.43**	$16.00
42409	Eastern Shore Potato Spec	Snow Hill	**5.87**	6.00	**8.72**	8.00	**1.15**		**8.80**	8.00	**51.46**	50.00
42717	German Kainit	Baltimore			**17.44**	15.00						
42912	H. G. Phosphate & Potash	Baltimore			**2.84**	5.00	**1.95**		**11.95**	12.00	**16.60**	19.50
42860	Little "B" Mixture	Baltimore	**3.11**	3.00	**10.24**	10 00	**1.15**		**8.25**	8.00	**39.39**	38.00
42416	Mammoth Truck Grower	St. Mich'ls. J.W.B.	**1.74**	2.00	**4.68**	5.00	**1.65**	.50	**10.02**	8.00	**26.07**	25.60
42934	Muriate of Potash	Baltimore			**40.02**	50.00						

42934	Muriate of Potash	Baltimore			40.02	50.00							

42718	Nitrate of Soda	Baltimore	18.70	18.00									
42719	Raw Bone Meal	Baltimore	4.16	4.00			*20.85	*20.60			33.31	32.36	
42768	Special Potato Crop	Baltimore	3.02	3.00	1.96	4.00	1.92		9.73	8.00	28.15	29.00	
42751	Star Wheat Grower	Baltimore	2.12	2.00	2.40	2.00	1.37	.50	8.48	8.00	22.95	21.10	
42970	Sulphate of Ammonia	Baltimore	23.36	25.00									
	Valliant Fertilizer Co., Laurel, Del.												
42839	Choice	Sharptown	2.02	2.00	8.68	8.00	.65		8.40	8.00	31.65	30.00	
	E. S. Valliant & Son, Centreville, Md.												
42840	Acid Phosphate, H. G	Centreville					.25		18.20	16.00	18.25	16.00	
42841	Big Three	Centreville	1.06	1.00	3.68	3.00	1.05		9.02	9.00	20.05	18.50	
42842	Corn Mixture, (Low Grade)	Centreville			9.84	7.00	1.13		4.07	4.00	19.06	14.50	
42961	General Crop Mixture	Centreville	1.11	1.00	1.60	1.00	1.03		10.27	8.00	18.43	14.50	
42843	High Grade Kainit	Centreville			14.32	14.00							
42844	Keystone	Centreville	1.88	2.00	6.04	5.00	1.38		8.32	8.00	27.06	25.50	
42845	Progress	Centreville	2.58	3.00	7.72	7.00	.80		8.70	8.00	33.34	33.50	
42429	Progress	Centreville	2.46	3.00	7.36	7.00	1.50		9.30	8.00	32.94	33.50	
	Wm. H. Valliant & Bro., Bellevue, Md.												
42963	Fish Manure, (Low Grade)	Bellevue	1.71	2.00	1.92	2.00	.75		2.10	2.00	$13.68	$15.00	
	Virginia-Carolina Chemical Co., B altimore, Md.												
42752	Acid Phosphate 16%	Baltimore					1.77		17.08	16.00	17.43	16.00	
42753	Best Potato Formula	Baltimore	4.06	4.00	6.20	6.00	1.57	1.00	8.78	8.00	38.69	37.20	
42791	Bone Fish & Potash	Baltimore	2.02	2.00	3.36	3.00	2.30		8.55	8.00	24.15	22.50	
42725	Eastern Shore Potato Spec	Baltimore	6.33	7.00	5.84	5.00	1.00	1.00	6.80	6.00	47.41	48.70	
42763	Fish Bone & Potash	Baltimore	2.02	2.00	3.72	3.00	2.45		8.40	8.00	24.57	22.50	
42861	Giant	Baltimore	2.47	3.00	3.56	3.00	1.80		7.10	8.00	25.15	27.50	
42792	Lime Phosphate, (Low Grade)	Baltimore					2.85		12.15	13.00	12.72	13.00	
42873	National Ammoniated Guano	Baltimore	1.01	1.00	4.32	4.00	1.20		8.10	8.00	19.87	19.00	
42901	Nitrate of Soda	Beltsville	18.26	18.00									
42935	1-9-3	Baltimore	1.09	1.00	3.40	3.00	1.40		9.01	9.00	19.84	18.50	
42936	Owl Brand	Baltimore	1.95	2.00	2.60	2.00	1.10		7.50	8.00	21.37	21.00	
42940	Standard Crop Grower	Baltimore	1.86	2.00	2.40	2.00	.45		9.25	8.00	22.24	21.00	
42776	Standard Grain Grower	Baltimore	1.35	1.00	2.12	2.00	1.70		9.01	8.00	19.28	16.00	
42937	Sulphate of Ammonia	Baltimore	24.16	25.00									
42862	Tobacco Special	Baltimore	2.02	2.00	5.52	5.00	1.15		8.80	9.00	27.41	26.50	
	Westminster Fertilizer Co., West minster, Md.												
42923	Honest Acid Phosphate 16%	Westminster					.43	1.00	17.87	16.00	17.96	16.20	
42924	Governor	Westminster	1.37	1.50	3.20	3.00	.60		11.60	10.00	.23.37	22.00	
42925	Leader	Westminster	.84	1.00	3.20	3.00	.50		10.60	9.00	19.70	18.50	

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA		POTASH, K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Westminster Fertilizer Co., Westminster, Md. (Cont.)											
42926	Super-A	Westminster	**1.02**	1.00	**2.36**	2.00	**.65**	.....	**11.25**	10.00	**20.02**	18.00
	H. W. Whistler, Bel Air, Md.											
42418	Fish, Bone & Potash	Aberdeen	**1.42**	1.00	**1.60**	1.00	**1.25**	.....	**8.10**	8.00	**$17.85**	$14.50
	F. M. Wilson & Co., Pocomoke City, Md.											
42964	Favorite Truck Fertilizer	Pocomoke City	**3.74**	5.00	**4.36**	5.00	**1.47**	.....	**10.68**	8.00	**36.21**	40.50
	Worcester Fertilizer Co., Inc., Snow Hill, Md.											
42846	Acid Phosphate	Snow Hill	.....	.....	.....	.....	**.28**	.....	**16.12**	16.00	**16.18**	16.00
42847	Corn Producer	Snow Hill	**1.35**	1.00	**2.32**	2.00	**.78**	.....	**10.22**	8.00	**20.61**	16.00
42965	Fish Mixture	Snow Hill	**3.28**	3.00	**4.02**	5.00	**1.28**	.....	**9.02**	8.00	**31.71**	30.50
42848	Fish Bone & Potash	Snow Hill	**2.01**	2.00	**2.88**	2.00	**1.00**	.....	**9.60**	8.00	**24.17**	21.00
42966	Peerless, (Low Grade)	Snow Hill	**.96**	.50	**2.84**	2.00	**1.95**	.....	**9.35**	8.00	**18.80**	13.50
42849	Special Potash Mixture	Snow Hill	**1.43**	1.00	**4.36**	4.00	**1.45**	.....	**8.20**	8.00	**22.18**	19.00
42850	Sweet Potato Special	Snow Hill	**3.11**	3.00	**5.80**	5.00	**.90**	.....	**9.15**	8.00	**33.58**	30.50
42851	Tomato Compound	Snow Hill	**2.13**	2.00	**5.36**	5.00	**.65**	.....	**9.60**	8.00	**28.42**	25.50

Key to Symbols Used In Table II, Page 31.

AMMONIA
(Nitrogen)

A—Ammonium sulfate
B—Bone
b—Base Goods
C—Cyanamid
c—Crab Scrap
D—Blood
F—Fish
H—Humus or Peat Treated
K—Tobacco stems
M—C. S. Meal
m—Sheep Manure
N—Nitrate Soda
Na—Nitrate of Ammonia
T—Animal Tankage
t—Garbage Tankage
L—Linseed Meal

PHOSPHORIC ACID AVAILABLE
A—Animal Matter
B—Bone
b—Base Goods
F—Fish
R—Dissolved Rock
c—Crab Scrap
m—Sheep manure
T—Tankage
*Total Phosphoric Acid in Bone
**Total Phosphoric Acid in Untreated Rock.

POTASH, SOLUBLE
a—Ashes
C—Cement by-product
K—Kainit
M—Muriate
m—Sheep Manure
N—Nebraska Potash (Sulfate and Carbonate)
S—Sulfate
T—Tobacco Stems
k—Kelp
t—Trona (California)
c—Carbonate
B—Sugar Beet Res. Char.
D—Double Manure Salt
s—Cottonseed-meal
n—Nitrate of Potash
b—Base Goods

TABLE II.—Registration of Fertilizers for 1922, from February 1 to July 31. For prior Registrations, see February Bulletin. For Key to Composition, see page 30.

FIRM AND BRANDS	PER CENT AND SOURCES OF		
	Ammonia (or Nitrogen)	Phosphoric Acid Available	Potash Soluble
Alphano Humus Co., New York, N. Y.			
Prepared Alphano Humus	1½	½	½
Armour Fertilizer Works, Baltimore, Md.			
Big Crop 2-16-2	2 TA		2 KD
Big Crop 2-8-10	2 TANF	16 RT	10 MKD
Lime Phosphate 13% (L. Gr.)	0	8 RTF	0
Farmer's Choice 1-9-3	1 TNA	13	3 KD
		9 RT	
Baltimore Fertilizer Co., Baltimore, Md.			
Old Honesty (L. Gr.)	½ NATt		2 KMDM
Honest Crop Grower	1 "	8 RTB	1 "
Honest I-9-3	1 "	8 "	3 "
Honest Ammoniated Bone	2 "	9 "	2 "
Honest Trucker	5 "	8 "	5 "
Honest 2-8-4	2 "	6 "	4 "
Honest 16% Acid Phosphate	0	8 "	0
		16	
Baltimore Pulverizing Co., Baltimore, Md.			
Truckers Choice	3 NTF	8 R	2 MD
Royal Compound	2 "	8 "	2 D
Harvest King	1 NT	10 "	2 "
Spec. Spring & Fall Mix., (L. G.)	0	8 "	2 K
Corn & Grain	0	12 "	4 KD
Baugh & Sons Co., Baltimore, Md.			
Raw Bone Meal	4½	*21½	0
3 & 50 Bone Meal	3	*23	0
Pure Steamed Bone	2	*25	0
Pure Bone & Muriate of Pot. Mix	2½ B	*20	5
Half & Half Mixture	1½ "	12 R	0
7% Potato Guano	7 BTDAFN	6 RTB	5 MK
Farmers Friend	5 "	6 "	7 "
Peruvian Guano Substitute	5 "	6 "	5 "
Potato & Truck Special	4 "	8 "	6 "
Special Tobacco Manure	4 "	8 "	4 "
Fish Bone & Potash	4 "	8 "	4 "
Yucatan Tobacco Guano	3 "	8 "	3 "
Grand Rapid Guano	3 "	8 "	3 "
Commercial Superphosphate	2 "	8 "	10 "
Complete Animal Base Fert.	2 "	8 "	5 "
Special Potato Manure	2 "	8 "	5 "
Tomato Compound	2 "	8½ "	2 "
Fish Mixture	2 "	8½ "	2 "
Animal Base & Potash Compound	2 "	8 "	2 "
Double Eagle Phosphate	2 "	10 "	1 "
Fish Bone Guano	2 "	10 "	1 "
Excelsior Guano	1 "	8 "	4 "
General Crop Grower	1 "	8 "	1 "
Balanced Plant Food	2 BTDA	12 "	2 "
Corn & Oats Fertilizer	2 "	12 "	2 "
Durable Plant Food	1 "	8 "	3 "
Economical Crop Producer	1 "	8 "	2 "
New Process 10% Guano	10 TABDFN	5 RTB	0
The Old Stand By-Dis. Animal Base	2 "	12 "	0
Peninsula Grain Producer (L. Gr.)	1 "	9 "	0
16% Acid Phosphate	0	16	0
14% Acid Phosphate	0	14	0
12 & 5 Phos. & Potash Mixture	0	12 R	5 MK
Soluble Alkaline Superphosphate	0	10 "	2 "
Sulphate of Ammonia	25	0	0
Nitrate of Soda	18½	0	0
Muriate of Potash	0	0	48
Genuine Imported Kainit	0	0	12.40
Ground Tankage	7	0	0
Double Eagle Phosphate	2 TAN	10 RT	4 MK
Half & Half Mixture	1½ B	10 "	5 M
10 & 4 Potash Mixture	0	10 R	4 MK

FIRM AND BRANDS	PER CENT AND SOURCES OF		
	Ammonia (or Nitrogen)	Phosphoric Acid Available	Potash Soluble
Berg Co., Philadelphia, Pa.			
Ground Animal Tankage	5½	13.60*	0
Ground Animal Tankage	9	7*	0
3-50 Bone	3	22.50*	0
Ground Raw Bone	4¼	21*	0
Braun Fertilizer Co., Baltimore, Md.			
General Crop Grower	4 NT	8 RT	4 D
Truck Grower	3 "	8 "	3 "
Special	2 T	10 "	2 "
Special Grower	2 "	8 "	5 "
Herbert Bryant's Son, Alexandria, Va.			
New Method	1 T	8 R	4 KM
Empress Amm'd. Dissolved Bone	1 "	8 "	1 K
Belle Haven Ammoniated Bone	2 TC	8 "	5 KM
Genuine Fish, Bone & Potash	2 FC	9 "	2 "
High Grade Acid Phosphate	0	16	0
Economy Compound, (L. Gr.)	0	12 R	0
Beef, Bone & Potash	1¼ TC	9 "	2 K
H. G. Truck & Potato	3 "	8 "	5 KM
Central Chemical Co., Hagerstown, Md.			
Gro-all Top Dresser with Pot.	7 ANFT	8 RFT	3 D
" " Truckers Pride	5 "	10 "	0
" " Truckers Delight	4 "	8 "	5 MD
" " Potato Special	4 "	8 "	7 "
" " Truck & Potato Special	5 "	8 "	5 "
" " Potash Special	0	12 RF	5 "
" " Canners Special	2 ATC	8 "	5 "
" " Sweet Potato Special	2 "	8 "	7 "
" " Corn & Truck Grower	4 "	8 "	3 D
" " Truckers High Grade	4 "	8 "	4 "
" " Valley Mixture	2 NAFT	8 RTF	2 "
" " Corn Compound	2 "	12 "	0
" " Cobbler Brand	3 "	8 "	5 MD
" " H. G. Potato	5 "	8 "	7 "
" " Fish & Potash Comp.	1¼ TFC	8 RFT	2 D
" " Empire	2 AFTC	8 "	10 M
" " Golden Sheaf	1 TC	8 RFB	1 D
" " Excelsior	2 ATC	8 "	4 "
Crisfield Fertilizer Co., Crisfield, Md.			
Ground Crab Scrap	4.26	2.58	0
Ground Crab Fertilizer	4.26	2.58	2.84
Dorchester Fertilizer & Lime Co., Cambridge, Md.			
Truckers Surprise	4 NATF	8 Rb	4 MK
Fish Mixture	2 TF	8 "	2 K
Our No. 2	2 T	8 "	2 "
Old Dorset	1 Tb	8 "	4 MK
Our Pea Special	2 NTF	8 "	4 "
Wm. R. Dorsey, Ellicott City, Md.			
Mixture "D"	2 BF	9 RBF	22 KD
Eastern Guano Co., Hagerstown, Md.			
Valley Queen	1 TFC	9 RTF	3 D
Farmers' Fertilizer & Feed Co., Westminster, Md.			
High Grade	2 TNAt	11 R	3 ND
No. 2	2 "	9 "	3 "
No. 3	1½ "	8 "	3 "
XX	1 "	9 "	3 "
XXX	1 "	9 "	4 "
Potato Fertilizer	2 "	8 "	5 "
Acid Phosphate	0	16	0
Fred'k. Mehring Fertilizer Works, Inc., Littlestown, Pa.			
Big Four Crop Grower	1 ATNt	9 R	2 MK
Mammouth Truck Grower	2 "	8 "	5 "
High Grade Acid Phosphate	0	16	0
Hampstead Fertilizer Co., Hampstead, Md.			
1-8-2	1 TNA	8 RTB	2 KD
1-8-4	1 "	8 "	4 "
2-8-4	2 "	8 "	4 "
16% Acid Phosphate	0	16	0

FIRM AND BRANDS	PER CENT AND SOURCES OF		
	Ammonia (or Nitrogen)	Phosphoric Acid Available	Potash Soluble
J. Geo. Harr, Baltimore, Md.			
Fish & Potash Mixture	2 TAF	8 R. A.	2 K
Horsey Roe & Co., Greensboro, Md.			
3-8-3	3 NF	8 R	3 MKD
2-8-5	2 FTN	8 "	5 "
Crop Grower 1-8-4	1 "	8 "	4 "
12-5	0	12 "	5 "
Corn Grower, 8-7	0	8 "	7 K
16% Acid Phosphate	0	16	0
Hubbard Fertilizer Co., Baltimore, Md.			
6-8-8	6 TFNA	8 R	8 MKD
12-5 Alkaline	0	12 "	5 "
1-8-5	1 "	8 "	5 "
Jersey Trucker	2 "	8 "	10 "
1-8-4 Fertilizer	1 "	8 "	4 "
M. P. Hubbard Co., Inc., Baltimore, Md.			
Dissolved Phosphate	0	16	0
Bermuda 7% Guano	7 TBFNA	6 R	5 MSKD
Harvest King	1 "	9 "	3 "
Special 2-8-10	2 "	8 "	10 "
Old Economy (L. Gr.)	½ "	8 "	2 "
Special Potato & Tomato	2 "	7 "	5 "
Excelsior	1 "	8 "	2 "
XXXX Rock & Potash	0	12 "	5 "
Acme Guano	1 "	8 "	4 "
Celebrated	2 "	8 "	2 "
Huston, Darbee & Co., Seaford, Del.			
Trucker	3 NAF	9 R	5 M
Fish Mixture	2 NF	9 "	2 K
Crop Grower	1 Fb	9 "	2 "
Sweet Potato	3 NF	8 "	7 M
Special Sweet Potato	2 "	8 "	7 "
Acid Phosphate	0	16	0
Koller Fertilizer Co., Seitzland, Pa.			
Ammoniated Phosphate	1 TNB	8 R	1 D
Potato Grower	1 "	8 "	2 MD
Producer Phosphate	2 "	8 "	4 "
Special Phosphate	1 "	8 "	4 "
H. G. Acid Phosphate	0	16	0
Massey & Kilbourne, Chestertown, Md.			
Try Me, (Low Grade)	½ T	9 R	2 K
Crop Producer	1 Tb	9 Rb	3 "
Propagator	2 TNAb	8 "	2 K
Trustworthy	2 TAb	8 "	5 MD
10-5	0	10 R	5 KD
12-3	0	12 "	3 K
Asparagus	3 TNA	8 "	3 "
High Grade Acid Phosphate	0	16	0
Corn	1 TKNA	8 R	4 K
Miller Fertilizer Co., Baltimore, Md.			
Acid Phosphate	0	16	0
Vegetable Compound	5 ANBTC	8 RB	5 MD
No. 1 Potato & Vegetable Grower	4 "	8 "	4 "
Standard Phosphate	3 "	8 "	3 KD
Pimlico	2 "	8 "	10 MD
Potato & Vegetable Grower	2 "	9 "	3 KD
Clermont	1 "	10 "	2 K
Hustler Phosphate	1 "	8 "	1 "
H. G. Potato Fertilizer	7 "	6 "	5 MD
Harvest Queen	1 "	9 "	3 KD
Farmers Profit	2 "	10 "	4 MD
Ammoniated Dissolved Bone	2 "	8 "	2 K
Grain Grower	1 "	8 "	4 MD
4% Alkaline	0	10 R	4 "
Club Brand, (Low Grade)	½ BTC	8 RB	2 K
Clinch Phosphate	0	10 R	2 "
2-8-5	2 ANBTC	8 RB	5 MD
Bone Product	4.75 B	18.31*	0
J. B. Nichols & Son, Baltimore, Md.			
Farmers Friend	4 NT	7 R	4 M

FIRM AND BRANDS	PER CENT AND SOURCES OF		
	Ammonia (or Nitrogen)	Phosphoric Acid Available	Potash Soluble
Nitrate Agencies Co., New York, N. Y.			
1-8-4 Grain Mixture	1 ANFTD	8 R	4 MS
2-10-0 Corn & Grain Mixture	2 "	10 "	0
2-8-2 General Crop Formula	2 "	8 "	2 "
2-8-5 Complete Plant Ration	2 "	8 "	5 "
2-10-2 Fall Grain Mixture	2 "	10 "	2 "
2-10-4 All Crop Potash Mixture	2 "	10 "	4 "
2-12-2 Wheat Mixture	2 "	12 "	2 "
3-8-3 Vegetable & Tobacco Grower	3 "	8 "	3 "
4-8-4 Potato Formula	4 "	8 "	4 "
5-8-5 Truckers Universal	5 "	8 "	5 "
7-6-5 Truckers Special	7 "	6 "	5 "
0-10-4 Phospho-Potash Mixture	0	10 "	4 "
H. G. Acid Phosphate	0	16	0
Nitrate of Soda	18.23	0	0
Sulphate of Ammonia	25	0	0
NitraPo	18.24 ANFTD	0	15 "
Animal Tankage	10	*4.58	0
Animal Tankage	7	*6.87	0
Ground Fish Scrap	10	*4.58	0
Dried Blood	16	0	0
Ground Steamed Bone	3	*22.89	0
Ground Raw Bone	4½	*20.60	0
Muriate of Potash	0	0	48
Sulphate of Potash	0	0	47
Grain Mixture	1.41 TN	11.20 RT	5.60 MK
Corn & Grain Mixture	2.60 AT	13.10 "	0
General Crop Formula	2.80 TN	11.50 "	2.80 M
Complete Plant Ration	2.60 "	10.60 "	6.60 "
Fall Grain Mixture	2.30 TNA	11.50 "	2.30 K
All Crop Potash Special	2.30 TN	11.90 "	4.70 Mn
Wheat Mixture	2.12 NTB	12.70 "	2.10 "
Vegetable & Tobacco Grower	4. NAT	10.70 "	4. S.
Potato Formula	4.90 NAT	9.80 "	4.90 M
Truckers Universal	5.50 AT	8.80 "	5.50 "
Phospho-Potash Mixture	0	14. R	5.60 "
Truckers Special	7.60 NAFTD	6.50 RTF	5.40 "
Wheat Mixture, No. 2	2.12 ANT	12.77 RT	2.12 MK
G. Ober & Sons Co., Baltimore, Md.			
Starkey Truck Compound	4 ANTFC	8 R	5 M
Special Plant Food	2 "	9 "	5 "
Red Seal Corn & Wheat Guano	2 "	12 "	2 "
Swan E Fish Guano	2 "	9 "	3 "
Farmers Standard Amm'd Phos.	2 "	9 "	2 "
Sol. Amm'd Super Phos. of Lime	2 "	8 "	2 "
Stag Guano	1 "	9 "	4 "
Golden Top Wheat & Corn Grower	1 "	9 "	3 "
Farmers Mixture	1 "	9 "	2 "
Independent Mixture	1 "	8 "	1 "
Golden Seal Tobacco Guano	3 "	8 "	1 SMc
Avondale Amm'd Dissolved Bone	2 "	8 "	1 M
Standard Potash Compound	0	12 "	5 M
10% Super Phos. & Potash	0	10 "	2 "
Liberty Fish Guano	1¼ "	13 "	0
Sun Beam Guano	2 "	11 "	0
Spec. Tobacco Bed Fertilizer	10 "	4 "	0
Md. Pride Tobacco Bed Guano, 6%	6 "	6 "	0
Pure Raw Bone Meal	4½	*21	0
Pure Bone Meal	3	*22	0
H. G. Acid Phosphate	0	16	0
Edelens Brands, G. Ober & Sons Co.			
Spec. Tobacco Guano	3 NAFTC	8 R	1 SMc
Spec. Tobacco Bed Fert., 10%	10 "	4 "	0
Wheat & Grain Mixture	1 "	8 "	1 "
Piedmont-Mt. Airy Guano Co., Baltimore, Md.			
Piedmont 16% Acid Phosphate	0	16	0
Piedmont Acidulated Phos. & Potash	0	10 R	2 KM
Piedmont Insula Fish Guano (L. Gr.)	½ FTb	7 "	2 "
Piedmont Excelsior	1 "	8 "	1 Db
Piedmont Peerless Phosphate	1 NATF	8 RT	1 KD
Piedmont Harvest Queen	1 "	8 "	2 "
Piedmont Standard	2 "	8 "	3 MD

FIRM AND BRANDS	PER CENT AND SOURCES OF		
	Ammonia (or Nitrogen)	Phosphoric Acid Available	Potash Soluble
Piedmont Perfection Guano	2 NATF	8 RT	5 MD
Piedmont Ammoniated Phosphate	1 "	9 "	3 "
Piedmont Stand. Dissolved Bone Phos.	1 "	10 "	1 "
Patuxent Guano Co., Baltimore, Md.			
Potato & Truck Guano	4 ATN	8 R	3 MKD
Guano	2 "	8 "	2 "
Beaver Brand Guano	1 TA	9 "	3 "
Tom O'Neill's Golden Harvest	1 "	9 "	2 "
Fish Guano	1 "	8 "	2 "
Farmers Friend (Low Grade)	½ "	8 "	2 "
Penn Compound (Low Grade)	1 "	8 "	0
Alsation Potash Mixture	0	8 "	5 "
Soluble Phosphate & Potash	0	10 "	2 "
H. G. Acid Phosphate	0	16	0
Lime Phosphate (Low Grade)	0	13	0
Grain & Clover Producer	1 TA	8 "	4 "
Trucker Quick Growth	5 ATN	7 "	5 "
Phosphogerm Mfg. Co., New Bern, N. C.			
Phosphogerm (Low Grade)	¼ HF	¼ RB	1-10 a
Ramsburg Fertilizer Co., Frederick, Md.			
Excelsior Plant Food	2 FTC	10 RT.	2 D
Old Virginia Compound	1 TF	8 RT	4 "
Ammoniated Bone Phosphate	1 "	10 "	2 "
Williams Wheat & Grass	1 Tt	10 "	1 "
Excelsior Half & Half	1 "	10 "	1 "
Corn & Potato Fertilizer	1 "	8 "	4 "
Queen (Low Grade)	½ t	10 R	1 "
Special Rock & Potash	0	10 "	5 "
Alkaline Phosphate	0	12 "	2 "
Super Phosphate	0	16	0
Rock, Potash & Plaster (L. Gr.)	0	5½ R	2 D
Superior Guano Co., Baltimore, Md.			
16% Acid Phosphate	0	16	0
Amm'd Phosphate & Potash	1 c	8 R	2 K
Carolina Special	1 "	9 "	3 D
Royal Crop Grower	1 "	8 "	4 "
Fruit Special	2 Nc	8 "	5 M
Reindollar Co., Taneytown, Md.			
Ammoniated Phosphate	1 NT	12 R	5 MK
Rock & Potash	0	12 "	5 "
Acid Phosphate	0	16	0
Pea Phosphate	0	12 "	10 "
W. E. Robinson & Co., Bel Air, Md.			
Vegetable & Grain	2 T	8 R	2 K
Robinson's Fertilizer	2 TAN	8 RT	5 MK
Summers Fertilizer Co., Baltimore, Md.			
Grain Grower	1 TAN	8 R	1 KD
16% Dissolved Phosphate	0	16	0
Swift & Co., Baltimore, Md.			
Standard Potato Fertilizer	2 NATD	8 RB	3 M
Plant Bed Fertilizer	5 "	8 "	2 "
New Jersey Special	4 "	8 "	7 "
Muriate of Potash	0	0	50
Early Potato Grower	5 "	8 "	5 "
Special Formula	5 AN	8 "	3 S
Four-Eight-One	4 "	8 "	1 "
Three-Eight-Four	3 "	8 "	4 "
Two-Nine-Two Brand	2 NAT	9 "	2 "
Special Corn Grower	2 "	10 "	0
Four-Six-Four	4 "	6 "	4 M
Special Mixture	4 "	8 "	5 "
Tanners' Hide & Tallow Co., Inc., Hagerstown, Md.			
Bone Phosphate	2 T	8 RB	2 K
Animal Tankage	5	0	0
H. S. Taveau & Co., Baltimore, Md.			
Pride of Maryland	1 NTA	10 RT	1 MKD
Fish, Bone & Potash Mixture	2 NTF	8 RTF	3 "
Strawberry Top Dressing	4 N	5 R	1 "

FIRM AND BRANDS	PER CENT AND SOURCES OF		
	Ammonia (or Nitrogen)	Phosphoric Acid Available	Potash Soluble
I. P. Thomas & Son Co., Philadelphia, Pa.			
Tip Top Super Phos	3 NAFT	8 RA	4 MD
General Use Fertilizer	2 NFT	8 "	2 K
16% Acid Phosphate	0	16	0
W. B. Tilghman Co., Salisbury, Md.			
Irish P Guano	7 ANF	6 RF	5 M
H. G. Early Truck Guano	5 "	8 "	5 "
Mixture B.	4 "	8 "	4 MK
H. G. Potash Mixture	2 AFt	8 "	10 M
Special 3-7-7	3 "	7 "	7 "
H. G. Potato Fertilizer	3 "	6 "	6 "
Special Fish for Sweet Potatoes	2 "	7 "	5 MK
Standard Fish Mixture	2 "	10 "	2 K
Fish Bone & Potash	1 "	10 "	2 "
Special Topdressing, (L. Gr.)	6 NA	0	0
H. G. Phosphate & Potash	0	15 R	5 MK
H. G. Acid Phosphate	0	16	0
F. W. Tunnell & Co., Inc., Philadelphia, Pa.			
Virginia Potato Manure	7 NAT	6 RTF	5 M
E. S. Valliant & Son, Centreville, Md.			
Keystone	2 TNAFt	8 R	5 KMND
Progress	3 "	8 "	7 "
Big Three	1 "	9 "	3 "
Grain Grower, (Low Grade)	½ "	8 "	2 "
Acid Phosphate	0	16	0
High Grade Kainit	0	0	14
Corn Mixture	0	4 "	7 "
Standard	1 "	9 "	4 "
12-5	0	12 "	5 "
Oriole, (Low Grade)	½ t	9 R	4 K
Wheat & Grass (Low Grade)	¼ "	11 "	5 KD
W. H. Valliant & Bro., Bellevue, Md.			
Fish Manure	2 F	8R	2 K
Fish Manure, (Low Grade)	2 "	2 "	2 "
Virginia-Carolina Chemical Co., Baltimore, Md.			
Giant	3 MACNat	8 R	3 SKTDc
Washington, Alexander & Cooke Co., Charles Town, W. Va.			
Superphosphate	0	16	0
Potato & Tobacco Manure, (Low Grade)	½ t	7 R	2 K
Westminster Fertilizer Co., Westminster, Md.			
Super-A	1 ANT	10 RT	2 KD
Leader	1 "	9 "	3 "
Governor	1½ "	10 "	3 "
Acid Phosphate	0	16	0
H. W. Whistler, Bel Air, Md.			
Dissolved Bone	2 BT	10 RTB	0
Crop Grower	1 "	8 "	3 MK
Fish, Bone & Potash	1 BTF	8 RBTF	1 K
A. S. Wolley Co., Inc., Seaford, Del.			
Strawberry Top Dressing	4 NT	9 R	3 D
Fish Mixture	2 TF	9 "	2 "
Truck Fertilizer	3 FTA	9 "	3 MD
Worcester Fertilizer Co., Inc., Snow Hill, Md.			
Worcester's 7% Guano	7 TNAF	6 RFT	5 M
Early Trucker	5 "	8 "	5 "
Fish, Bone & Potash	2 NTFt	8 "	2 KD

Fertilizer Law of Maryland.

IN EFFECT JUNE 1, 1922.

Section 1. The term "fertilizer" as used in this Act shall mean any commercial fertilizer, or any article, substance or mixture sold, offered or exposed for sale, for manurial purposes in the State of Maryland of which the selling price shall be more than $5.00 per ton of two thousand pounds, but shall not include ground gypsum, lime, ground limestone, ground shells, dung of all poultry or dung of domestic animals, in bulk, when sold as such and when not mixed with other fertilizer or fertilizer materials. The term "State Chemist" shall mean the professor in charge of the Chemical Department of the University of Maryland, who shall be ex-officio State Chemist. The term "brand" shall mean the full name, brand and trade-mark under which a fertilizer is sold, together with a statement of the percentage of the valuable ingredients contained in said fertilizer.

Sec. 2. That every manufacturer, jobber, or manipulator of commercial fertilizer, and materials used in the manufacture of the same, who may desire to sell or offer for sale in the State of Maryland such fertilizer or fertilizer materials before offering the same for sale shall file or register with the University of Maryland upon forms furnished by said University the name of each and every brand of fertilizer which it is desired to sell in the said State by any said manufacturer, jobber, or manipulator, or their agents, together with the name and address of said manufacturer, jobber, or manipulator, and the guaranteed analysis of said fertilizer stating the sources from which the nitrogen, phosphoric acid and potash are derived; the statement as to the sources of the plant foods shall be made in terms of the percentages making up the total per cent of each.

Before any person or firm shall sell or offer for sale any pure or mixed Culture of Micro-Organism or other material to be used for promoting directly or indirectly the growth of higher plants, he or they shall secure a permit and shall file or register with the University of Maryland a statement under oath, specifying the composition of the substance, and the kind of Micro-Organisms contained therein which promotes the growth of higher plants, and they shall pay to the University of Maryland a permit and registration fee of $10.00 per brand. The University of Maryland shall have power to refuse or cancel such permit whenever any culture or Micro-Organisms or any other material used for promoting the growth of plants is sold under false or misleading claims.

Sec. 3. That every importer, manufacturer, manipulator, dealer or agent before selling, offering or exposing for sale, within the State of Maryland any fertilizer shall pay to the University of Maryland a fee of $10.00 per brand for each brand registered under Section 2 of this Act and on or before December 31st, of each year shall file with the University a statement, made under oath in due form of law, giving the total number of tons of fertilizer sold during that calendar year in the State of Maryland, and shall pay thereon an inspection tax of ten cents per ton; provided, however, goods sold in bulk to manufacturers, manipulators, or mixers for resale, of fertilizers shall not be subject to the said tax of ten cents per ton; provided further that where the tonnage tax paid in any one calendar year is in excess of the brand tax of $10.00 above provided the said brand tax shall be rebated; and provided further that when any manufacturer, dealer or importer has paid the required inspection fees no other person selling the same goods under his name and brand shall be required to pay such fee.

Sec. 4. That every bag, barrel, or package of fertilizer must bear plainly and conspicuously on the outside of same, and every parcel or lot sold in bulk must be accompanied by a clear and true statement in legible print, in the order herein stated, the following:

The net weight of the contents of the package or lot in pounds;

Brand name or trade-mark;

Grade (as 2-10-2) namely, 2% of Ammonia, 10% Phosphoric Acid, and 2% Potash.

Guaranteed analysis in percentages:

Total nitrogen and/or its equivalent to Ammonia (NH_3);
Water Soluble Nitrogen and/or its equivalent to Ammonia (NH_3);
Available Phosphoric Acid;
Water Soluble Potash (K_2O);
Name and address of manufacturer.

In lieu of the available phosphoric acid above stated, the soluble phosphoric acid, and the reverted phosphoric acid, and the minimum of insoluble phosphoric acid may be given, and the maximum per cent of chlorine shall be given. In the case of unacidulated bone, tankage, fish or other animal, or vegetable matter, used as fertilizer, it shall be lawful to guarantee the phosphoric acid as total phosphoric acid; provided, however, that in the statement of the guaranteed analysis the minimum percentage only of the valuable constituents shall be given. It shall be unlawful to brand as pure bone any mixture in which any part of the phosphoric acid is from sources other than bone.

Sec. 5. That it shall be unlawful to sell, offer or expose for sale for fertilizer purposes any raw, or untreated, leather, hair, wool waste, hoof, horn, peat, cyanogen compounds, muck, tartar pomace, mora meal, or similar materials, either as such or mixed with other fertilizer materials; provided, however, that this section shall not apply to such material as has been treated in a manner to make available the essential fertilizer constituents which it may contain; and provided further that the section shall not apply to the raw materials hereinbefore enumerated which are consigned to, or offered for sale in bulk, to manipulators, or manufacturers of fertilizers.

Sec. 6. That the words "High Grade" shall not appear upon any bag or package of any complete fertilizer containing, according to its guaranteed analysis, less than 1.65% of nitrogen (equivalent to 2% of ammonia), 10% of available phosphoric acid and 2% of potash.

Sec. 7. That each and every brand of fertilizer, or fertilizer material, filed with the University of Maryland must remain uniform with the guaranteed analysis of said brand, and in no case, even at a subsequent registration, shall the grade be lowered by reducing any, or all, of the several constituents contained therein.

Sec. 8. That it shall be the duty of the University of Maryland to procure for analysis one or more samples in each year, as far as practicable, of all fertilizers sold, offered for sale or used in the State of Maryland, and the State Chemist, or any agent or representative, duly authorized by him, or by the University of Maryland, shall have the right to take samples from any lot, or parcel, or fertilizer in the possession, or in the keeping of any manufacturer, manipulator, dealer, agent, consumer or transportation company in said State of Maryland, and it shall be the duty of the University of Maryland to publish at least semi-annually the results of the analysis made by the said University of the samples procured by or sent to it for such purpose, and when reporting, or publishing the result of any analysis to state the approximate commercial value in dollars and cents of the fertilizer so analyzed per ton of two thousand pounds, such value to be based upon the analysis made at the said University and upon a standard of valuation to be ascertained, fixed and published by said University as above provided after conference with the proper officials of adjacent States.

Sec. 9. Any purchaser of fertilizer, or fertilizers, provided he is not a manufacturer, or manipulator, or agent, of the same, may have taken, in the presence of a disinterested witness, a sample, or samples, of said fertilizer, and forward the same with all transportation charges prepaid to the University of Maryland, for analysis, provided that samples so taken shall be from unbroken bags, or packages, which have not been damaged or injured in transit, or by exposure, and which have not been in possession of the owner more than thirty (30) days, provided, further, that said samples be taken from at least 5% of the bags or packages comprising the brand purchased, and if there are less than 100 bags, or pack-

ages, of the brand so purchased samples shall be taken from not less than five bags, or packages, and if there are less than five bags or packages samples shall be taken from each. All such samples shall be taken under such additional rules and regulations as may be prescribed by the University of Maryland, provided further, that every sample sent for analysis to the said University shall be fully described on forms to be furnished by said University free of charge, said description giving a full and complete statement of the time and place of sampling, of all marks on the bags or packages thereof, and of all the facts relating to the same, said description and statement shall be signed by the purchaser of the fertilizer, the person drawing the sample and the disinterested witness or witnesses as above provided, and provided further, that the purchaser, or purchasers, sending such sample, or samples, of fertilizer to said University for analysis shall withhold said description or descriptions of said sample or samples until he has received from the said University of Maryland the report of the analysis of said fertilizer. Any person or persons receiving an analysis from the said University as required under this Act shall immediately thereafter forward to it the statement required by this Act to be made at the time of taking the sample or samples.

Sec. 10. That it shall be the duty of the University of Maryland to analyze upon request, without cost or charge, all samples of fertilizer sent to said University and taken in the manner prescribed in this Act. The said University, the State Chemist, or his assistants or agents, shall not demand of any purchaser so sending sample, or samples, for analysis any advice, information or statement as to any analysis appearing on the original unbroken packages, or bags, from which said sample or samples were taken, or the name or names of any individual, representative, agent or corporation or firm from which said fertilizer, or fertilizers, were purchased; and it shall be the duty of the said University through its duly authorized agent, the State Chemist, appointed by the State Board of Agriculture, to at once make a full and complete analysis of the sample, or samples, received in accordance with this provision and within thirty (30) days thereafter return to such person, or persons, from whom the sample, or samples, were received a full and complete analysis of said sample or samples. It shall be unlawful for any individual, representative or agent of any corporation or firm, or any corporation or firm itself, either directly or indirectly, to have any communication with the said University, or its chemists, agents or representatives, or the sender of any sample to said University, regarding the analysis of any fertilizer, or fertilizers, sent to the said University by the purchaser or purchasers thereof for analysis until after the report of said analysis. The University of Maryland, the State Chemist, their agents or representatives, shall not furnish any information or communicate with any manufacturer of fertilizer, about any such sample submitted for analysis until after a report of the analysis so made shall have been duly furnished to the applicant for such analysis.

Sec. 11. That any purchaser of fertilizer who shall be injured, or defrauded, by the failure of the contents of any bag, barrel, or other package of fertilizer, or any fertilizer in bulk, to conform to the statement of the quantity, quality, marks, labels on or accompanying the same, or filed with the University of Maryland, or who shall purchase fertilizer branded, "pure bone" when the same is adulterated with oyster shell or other foreign matter, even if the analysis corresponds to the guaranteed analysis on the package, may recover from the seller, or sellers, thereof in an action of debt an amount equal to the purchase money of said fertilizer and cost of suit, and in case the purchase is made of an agent, or any person, or persons, residing out of the limits of the State of Maryland, or any company, or corporation, whose principal place of business is out of the State of Maryland, the purchaser may at his, or her, option proceed by attachment as now provided for by law in case of non-resident and absconding debtors, against any property, rights or credits or any person, or persons, company, or corporation, furnishing said fertilizer when such property rights, or credits, can be found within the State of Maryland; provided, the purchaser of any fertilizer shall not be deemed to be defrauded by a shortage in the constituents of said fertilizer when the said short-

age does not exceed 5% of the amount guaranteed, but on account of said shortage shall be entitled to recover as liquidated damages the amount of the commercial value of said shortage, provided, however, should said shortage be more than 5% of the commercial value guaranteed that the purchaser shall be entitled to recover as liquidated damages twice the amount of the shortage in commercial value and provided further should a shortage in one or more constituents exceed one-fifth of the guaranteed analysis the purchaser shall be entitled to recover, as liquidated damages twice the commercial value of said shortage without any compensation being allowed for any excess in other constituent or constituents except however in no event shall the purchaser be entitled to recover an amount in excess of the purchase price of said fertilizer.

Sec. 12. That the inspection and brand fees provided for in this Act shall be paid to the University of Maryland, and disbursed by it, to cover the cost of the analysis, inspection, sampling, printing, and for the dissemination of information regarding the contents and the analysis of fertilizers subject to this Act, the use and compounding of commercial fertilizers, and the administration and the enforcement of the provisions of this Act, and such other expenses as may be incurred in the development of the chemical work at the University of Maryland in relationship to this Act.

Sec. 13. That the University of Maryland shall have authority to establish rules and regulations in regard to the inspection, analysis, sale of fertilizers and fertilizer materials, and the publication of all information authorized herein, to the end that the provisions of this Act may be effectively administered and enforced.

Sec. 14. That the brand fee as provided in this Act shall not apply to any fertilizer mixed according to a formula furnished by a consumer; provided, in lieu of the registration, all packages of fertilizers shall be plainly marked, or tagged, on the outside of the package with the words "Mixed to Order," together with a statement thereon of the guaranteed analysis, and in all the other particulars said mixed fertilizer shall conform to the provisions of this Act.

Sec. 15. That every person, firm, corporation or association, guilty of a violation of any of the provisions contained in Sections No. 2, 4, 5, 6, 7 and 9 of this Act, and every officer, manager, director, or managing agent of any such person, firm, corporation or association, directly participating in such violation, or consenting thereto, shall be punishable by a fine of $100.00 for the first offense, and, upon a second conviction, shall be punished by a fine of $500.00 or imprisonment for not more than three months, or both, at the discretion of the court. And it shall be the duty of the State's Attorneys of the several counties of this State to prosecute all violations of any of the provisions contained in said Sections Nos. 2, 4, 5, 6, 7 and 9 brought to their attention, said prosecutions to be in the name of the State of Maryland, and the penalty recovered, when paid, to be turned into the fertilizer fund of the University of Maryland.

Sec. 16. That if any person, firm, or corporation, subject to the provisions of this Act shall fail to file the statement required in Section No. 3 herein regarding the tons of fertilizer sold, and to pay the inspection fee, provided therefor in this Act, within sixty (60) days after the close of the calendar year, the same shall subject said person, firm, or corporation, to a penalty, upon conviction, of one hundred dollars, and two hundred dollars for each subsequent week that said inspection fee remains unpaid. Prosecution therefor to be entrusted to the State's Attorneys as in the preceding section provided and brought in the name of the State of Maryland and the penalty recovered when paid, to be turned into the fertilizer fund of the University of Maryland.